# WATER TEMPERATURE RECORDS FROM CALIFORNIA'S CENTRAL N WOO VALLEY

1939 - 1948

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SPECIAL SCIENTIFIC REPORT: FISHERIES No. 2



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## Explanatory Note

The series, Special Scientific Report - Fisheries, embodies results of investigations, usually of restricted scope, intended to aid or direct management or utilization practices and as guides for administrative or legislative action. It is issued in limited quantities for the official use of Federal, State or cooperating agencies and in processed form for economy and to avoid delay in publication.

## WATER TEMPERATURE RECORDS FROM CALIFORNIA'S CENTRAL VALLEY, 1939 - 1948

By Oliver B. Cope, Fishery Research Biologist, Branch of Fishery Biology

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### INTRODUCTION

Biologists of the Central Valley Investigations. Fish and Wildlife Service, Department of the Interior, have been carrying on for some years studies of water temperatures in relation to the fisheries of streams of Northern California. These studies began in 1939, as a part of the fishery investigation occasioned by the construction of Shasta Dam on Sacramento River, and have since increased in importance and in intensity. Today, they are one of the principal features of the fishery studies of the Central Valley Investigations. The present prominent role of these inquiries has been partly a result of a growing need for specific thermal data on streams under consideration in connection with multiple water use projects. and partly a result of requirements for basic studies of the limnology of streams. Not only have many of these demands been met by the temperature records accumulated in the study, but other requests, from both fishery and engineering agencies, have been answered with extensive series of records. In turn. Central Valley Investigations has had the benefit of temperature data provided by other organizations. In spite of this free exchange of temperature data, many useful series of records have reposed, unused, in scattered files. The purpose of this report is to assemble the more important ones from the northern Central Valley, and to make them available for handy reference.

Temperature studies in the Central Valley, after 1939, began a gradual development, paralleling the other fishery studies related to Shasta Dam and its effects. During the war years, when the entire Shasta fishery

project was undermanned, thermal records were kept only on the upper Sacramento River and on a few tributary streams, in the Central Valley itself. Other studies were conducted on Trinity River (Moffett and Smith. 1949). incidental to a fishery investigation relating to a plan to divert water from that coastal drainage into the Sacramento system. A postwar expansion of the temperature studies began in 1946, when new stations were put into operation and new interests developed. Twelve thermograph stations were operating by the end of 1946, as well as several hand thermometer stations, and in 1947 additional localities were brought under investigation. The California Division of Fish and Game also expanded its temperature studies in 1946. They operated several thermographs in the middle and southern Central Valley. The U. S. Bureau of Reclamation and the Division of Water and Sewers, City of Sacramento, have maintained their interest in the collection of thermal data, and these agencies have rendered this report more useful by providing records for inclusion.

### METHODS AND EQUIPMENT

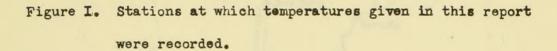
Recording thermographs were used to register temperature readings in the cases of most stations treated here. In some instances, hand thermometer readings taken twice daily over long periods are included because they represent the only records from that particular station. Thermographs were calibrated once each week.

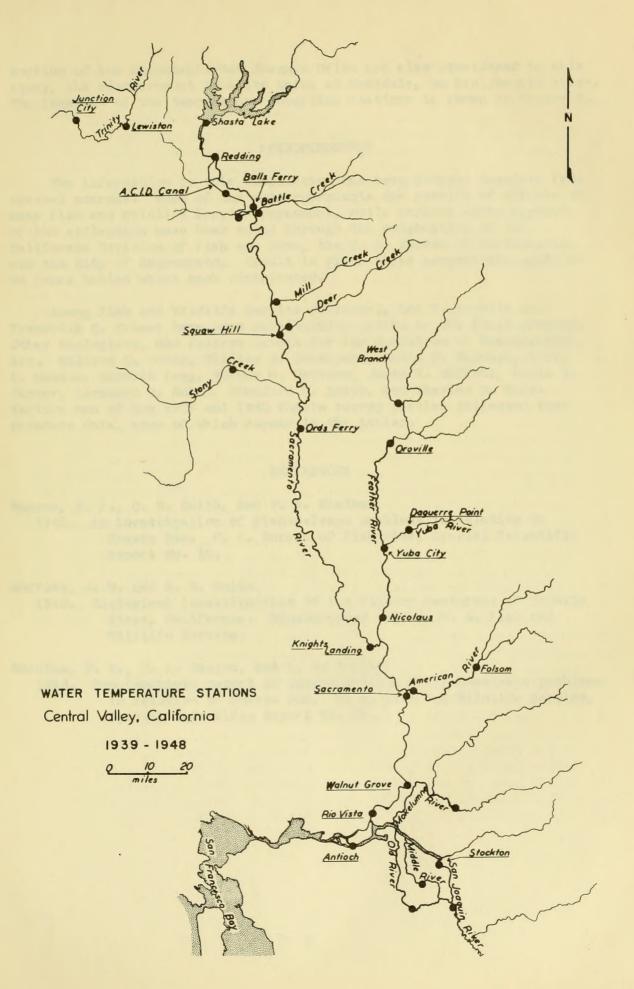
Data transcribed from thermograph sheets have been interpreted only to the nearest degree, Fahrenheit. This degree of accuracy has been selected as most practical on the basis of precision of the thermographs, the width of the stylus line in relation to the spaces on the thermograph chart, the number of people transcribing data, and the statistical significance of more refined interpretation.

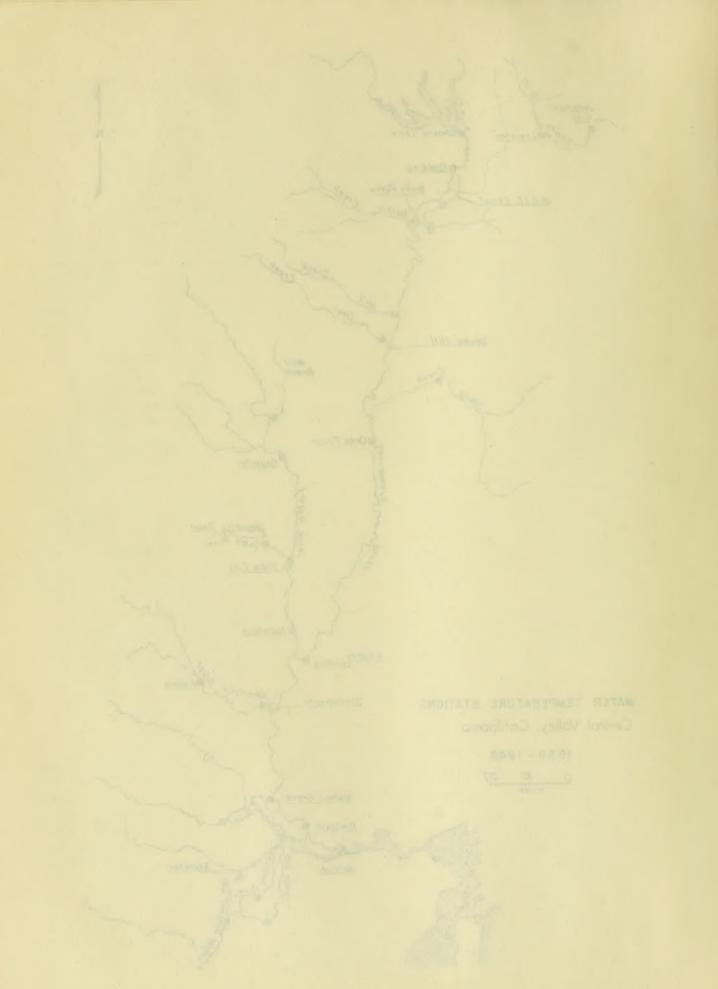
Daily maximum and minimum temperatures are presented for those stations served by thermographs, and monthly mean values are given at the base of each column. When hand thermometer readings are presented in the tables, the hour at which temperatures were taken is indicated.

### SCOPE

The territory treated here is, with only one exception, within the confines of the Central Valley of California. The exception is the Trinity River at Lewiston and Junction City, and is included because of the completeness of the records and the fact that Trinity River water may yet be diverted to the Sacramento drainage. The northernmost valley records are from the discharge through Shasta Dam. Several stations downstream to the mouth of Sacramento River are included, as well as those on various important tributaries. Stations in the San Joaquin







portion of the Sacramento-San Joaquin Delta are also considered in this study, the southernmost locality being at Mossdale, on San Joaquin River. The location of the temperature recording stations is shown in Figure I.

### ACKNOWLEDGMENT

The information in this compilation has been brought together from several sources. Most of the data represents the results of efforts of many Fish and Wildlife Service personnel, while various other segments of the collection have been added through the cooperation of the California Division of Fish and Game, the U. S. Bureau of Reclamation, and the City of Sacramento. Credit is given these cooperating agencies on those tables which each contributed.

Among Fish and Wildlife Service personnel, Leo F. Erkkila and Frederick K. Cramer have been particularly active in the field program. Other biologists, who deserve credit for the operation of thermographs, are: Millard H. Coots, William H. Davenport, David H. Hammack, Harry A. Hanson, Kenneth Legg, Norman W. Mattoon, James W. Moffett, Lewis P. Parker, Bernhard R. Smith, Stanford H. Smith, and Charles B. Wade. Various men of the 1939 and 1940 Shasta survey parties collected temperature data, some of which appear in the tables.

### REFERENCES

- Hanson, H. A., O. R. Smith, and P. R. Needham
  1940. An investigation of fish-salvage problems in relation to
  Shasta Dam. U. S. Bureau of Fisheries, Special Scientific
  Report No. 10.
- Moffett, J. W. and S. H. Smith
  1949. Biological investigations of the fishery resources of Trinity
  River, California. Mimeographed report, U. S. Fish and
  Wildlife Service.
- Needham, P. R., H. A. Hanson, and L. P. Parker

  1943. Supplementary report on investigations of fish-salvage problems
  in relation to Shasta Dam. U. S. Fish and Wildlife Service,
  Special Scientific Report No. 26.

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Water Temperatures, Sacramento River at Shasta Dem\* Industrial the mometer readings taken in Shasta Dem powerplant, Shasta County, California. Sec. 15, T. 33 N., R. 5 W., Mt. Diablo B. & M.

1948 52.0 55.0 53.5 55.0 57.0 56.0 52.0 52.0 U. S. Bureau of Reclamation. \*These data are made available through 53.6 55.0 57.0 53.6 53.8 53.6 55.0 55.4 55.4 57.0 1947 51.8 55.4 1946 53.6 55.4 51.8 53.6 53.6 55.4 55.4 55.4 1945 57.2 56.3 55.4 54.5 57.2 57.2 57.2 55.4 53.6 52.7 53.2 53.6 65.8 51.8 64.4 62.6 1944 61.7 8 64.4 Region II, C C 13 18 14 20 23 26 27 28 13 2 5 22 22 24 24 30 19 12 25 25 28 28 10 11 N 00 Avor. Sept. Aver. Aver. Aver. Date Temperature, in degrees Fahrenheit, 1944-1948 48.0 48.0 48.0 48.0 48.0 48.0 48.0 48.0 50.0 50.0 1948 50.0 52.5 48.2 48.2 48.2 48.2 50.0 50.0 51,8 54.0 48.2 48.2 1947 51,2 50.0 1946 48.2 50.0 50.0 53.6 48.2 48.2 48.2 48.2 48.2 48.2 49.1 50.9 50.0 48.2 48.2 48.2 48.2 2 48.8 50.0 51.8 49.1 49.1 8 64.4 64.4 944 July 1 3 8 15 15 22 28 28 28 Aver. 0001188 Aug. 2 22224 Aver. 10 16 16 28 28 30 Aver. Aver. Pate May 47.0 46.0 48.0 46.0 948 48.0 48.0 46.0 50.0 50.0 46.0 52.0 50.7 48.2 48.2 48.2 48.2 48.2 48.2 46.4 46.4 48.2 49.4 46.4 947 47.3 946 48.2 47.3 48.2 50.0 50.0 50.0 46.4 46.4 46.4 46.4 48.2 47.3 48.0 47.3 48.2 50,9 48.3 48,2 46.4 48.2 49.1 14 22 23 30 13 118 20 20 23 23 31 31 15 15 25 25 25 27 13 Apr. 9 10 22 23 29 30 41 CD C Feb. 1 Aver. Aver. Arer. Aver. Kar. Date Tan.

TABLE 2

Sacramento River at Redding strict Dam, Redding, Shasta County, California taken at Anderson-Cottonwood Irrigation District Dem, 1 Sec. 26. T. 32 N., R. 5 W., Mt. Diablo B. & M. Afternoon and Morning Water Temperatures, 5 W. T. 32 N., 26, Sec. Daily Hand thermometer readings

Thermograph located on headworks of Anderson-Cottonwood Irrigation District Canal, Redding, Shasta County, California Sec. 26, T. 32 N., R. 5 W., Mt. Diablo B. & M.

Tomporature, in degrees Fahrenhoft, 1947

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Thermograph located on headworks of Anderson-Cottonwood Irrigation District Canal, Redding, Shasta County, California Sec. 26, T. 32 N., R. 5 W., Mt. Diablo B. & M.

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| 20  | - 19  | ı '   |        | 49 49     | R      | 49   | r<br>N   | 49   | 51     | -       |          |       |         | 55   | 57 A   | 54     | 53  | 4            |
| 48  | 1     | 49    |        | 50 50     | 93     | 49   | 50       | 49   | 51     | and Jr. |          | 53    |         | 55   | 55     | 54     | 53  | 51 45        |
| 49  | 51 -  | 49    | 49     | 49 48     | 51     | 49   | 2        | 49   | 51     | oseet?  |          |       |         | 55   | 54     | 54     | 53  | 4            |
| <del>Q</del> 4                            | 49    | 49    | 49     |           | 51     | 49   | 13       | 49   | 51     | _       |          | _     |         | 55   | 54     | 54     | 53  | 54 45        |
| A.  | - 67  | 49    | ı      |           | 50     | 49   | 20       | 49   | 51     | 49      |          | -     |         | 54   | 54     | 54     | 54  | 54 47        |
|   | 49    | 49    | 1      | 49 48     | 20     | 49   | 20       | 49   | 21     | 49      |          |       |         | 55   | 54     | 54     | 53  | 51 47        |
| 49  | 49 -  | 49    | ı      |           | 20     | 49   | 51       | 49   | 51     | 49      |          | _     |         | 54   | 54     | 54     | 53  | 51 47        |
| -Ch                                       | 49    | 1     | 1      |           | 50     | 49   | 51       | 49   | 51     |         |          |       |         | 55   | 54     | 55     | 53  | 50 48        |
| A.  | 49    | 49    | 49     | 50 50     | 22     | 49   | 51       | 49   | 51     | -       |          |       |         | 52   | 55     | 55     | 53  | A.           |
| 4   | 20 -  | 1     | 1      |           | 20     | 49   | 51       | 49   | 51     | 50      |          |       |         | 56   | 55     | ಬ್ಬ    | 53  |              |
| 51 48                                     |       | ı     | 1      |           | 8      | 49   | 50       | 49   | 51     |         |          |       |         | 56   | 55     | 53     | 53  | 51 47        |
| 51 48                                     |       | 49    | 48     |           | 50     | 49   |          |      | 51     | 49      |          |       |         | 55   | 55     |        |     |              |
| 51.1 49.7                                 | 49.8  | 49.1  | 48 ° C | 49.3 48.7 | 7 50.0 | 49.0 | 50.3 4   | 9.1  | 51.0 4 | 9.1 52  | 2.1 50.  | 4 53. | 0 51.7  | 54.4 | 53.7   | 54.6 5 | 3.7 | 52,1 48,9    |

Thermograph located at Balls Ferry Rack, six miles east, south, east of Anderson, Shasta County, California Sec, 34, T. 30 N., R. 3 W., Mt. Diablo B. & M.

Tomporature, in degrees Rahrenheit, 1941 and 1945

| 1945 | Jan.  | Max. Min. |    |    |           |    |    |    |    |    |    |     |    |    |    |    | 49 48 |    |     |     |    |     |    | •   | 1  |    |    |    |    |     |    |    |     | 50.0 48.8. |
|------|-------|-----------|----|----|-----------|----|----|----|----|----|----|-----|----|----|----|----|-------|----|-----|-----|----|-----|----|-----|----|----|----|----|----|-----|----|----|-----|------------|
|      | Oct.  | Maxe      | 09 | 61 | 61        | 59 | 28 | 58 | 56 | 56 | 56 | 56  | 55 | 54 | 55 | 55 | 55    | 26 | 57  | 56  | 55 | 56  | 55 | 54  | 51 | 50 | 48 | ,  | ,  |     |    | -  | -   | 55.7       |
| 1941 | Sept. | Max       | 64 | 65 | 99        | 67 | 1  | 1  | 1  | •  | 1  | 1   | 1  | ı  | 64 | 64 | 64    | 64 | 64  | 09  | 09 | 59  | 59 | 59  | 09 | 09 | 61 | 62 | 62 | 62  | 29 | 61 |     | 62.2       |
|      | Aug.  | Max       | 72 | 73 | 72        | 72 | 73 | 72 | 72 | 72 | 72 | 7.1 | 17 | 69 | 72 | 72 | 74    | 73 | 72  | 72  | 72 | 72  | 72 | 7.1 | 70 | 70 | 70 | 70 | 89 | 67  | 99 | 65 | 65  | 70.8       |
|      | July  | l'ax.     | 1  | 1  | 1         | 1  | ,  | 1  | ı  | ı  | 1  | 1   | ı  | 1  | 1  |    | 1     | ı  | 1   | 1   | ı  | 1   | 1  | 1   | 1  | 1  | ,  | ı  | 1  | , 1 | 73 | 73 | -11 | 73.3       |
|      |       | Dato      | 7  | ~  | <b>10</b> | 4  | ı, | 9  | 7  | ω  | o  | 70  | 7  | 12 | 13 | 14 | 15    | 97 | 7.7 | 207 | 67 | 0 6 | 17 | 22  | 23 | 47 | 52 | 92 | 22 | 828 | 53 | 30 | 31  | Av.        |

California Anderson, Shasta County, Sacramento Ith, east of six miles east, south, east, 30 N., R. S W., Mt. Diablo Temperatures; Water Reck s Forry Rack To The rmograph located at Balls

River at Balls Ferry Anderson, Jasta County, California Sacramento east of Temperatures, Water and Minimum Ferry Rack, Thermograph located at Balls

50.8 Doce 50 50 51.7 54.1 \$\text{\tint{\text{\tin}\text{\tetx{\text{\tetx}\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\texit}\tint{\text{\texit{\texi}\text{\texitit{\text{\text{\text{\texi}\text{\texit{\text{\texi}\text{ Nove 55.7 3 58 Oata 22 0.69 56.1 55 55 55 55 55 57 Sonte 7.69 53.5 ٠ اية دي 1947 57.5 <sub>1</sub> south out Fahronhoit, 80 52, 56.7 W. s. 52.5 dogroos six miles east, 30 N. R. 3 W. June 58.1 50.9 Tomporaturo, Rack, S. 55.2 56 56 55 55 55 55 55 55 55 49.8 Sec. 52 53 ADL വ 55. 7 49. Mare 9 52. 0 48 50.1 9 48 47 47 46 46 47 Jane 2 48 47

110

Shasta County, California Balls Ferry Anderson, south past of B. Mt. Diablo B. Temperatures, Forny Rock, r. 30 Miles east, sec. 34, r. 30 Miles Daily Maximum Thermograph located at Salls

Laily Maximum and Minimum Water Temperatures, Sacramento River at Squaw Will Thermograph located two miles west of Vina, Tehama County, California Sec. 28, T. 24 N., R. 2 W., Mt. Diablo 3. & M.

Tomporature, in degrees Pahronhoit, 1945 and 1946

|      | Nov. Dec. | in lie    | 51 50 |    | 22 |     |    |            |    | 49 | 49 50 | 50 50 | 50 49 | 49 | 50 48 | 52 48 | 50 48 | ম  | 51 |    |     |    |    | 48 | 20 | 48 48 47 | 48  | 49  | 49 48 | 49 47 | 49 47 |         |     |
|------|-----------|-----------|-------|----|----|-----|----|------------|----|----|-------|-------|-------|----|-------|-------|-------|----|----|----|-----|----|----|----|----|----------|-----|-----|-------|-------|-------|---------|-----|
|      | Oct. N    | fin. Ke   |       | 55 | 55 | 55  | 55 | 26         | 55 | 55 | 55    | 57    | 56    | 56 | 55    | 56    | 55    | 53 | 53 | 54 | 53  | 54 | 56 | 20 | 53 |          | 55  | 56  | 52    | 54    | 49    | 50      |     |
|      | Sept.     | in. Mr    | 57    | 57 | 55 | 55  | 56 | 56         | 56 | 58 | 57    | 56    | 56    | 56 | 56    | 28    | 56    | 56 | 56 | 57 | 23  | 59 | 59 | 61 | 61 | 62 59 58 | 59  | 59  | 59    | 59    | 59    |         | 53  |
|      | Ane       | Max. Min. |       |    |    |     |    |            |    |    |       |       |       |    |       |       |       |    |    |    |     |    |    |    |    |          |     |     |       |       |       | 62 57   | I   |
|      | July      | Max. Min. |       |    |    |     |    |            |    |    |       |       |       |    |       |       |       |    |    |    |     |    |    |    |    |          |     |     |       |       |       | 62 57   |     |
|      | June      | Max. Min. |       |    |    |     |    |            |    |    |       |       |       |    |       |       |       |    |    |    |     |    |    |    |    | 62 56    |     |     |       |       |       |         |     |
| 1946 | May       | Max. Min. | 1     | 1  | 1  | 1   | 1  | ı          | 1  | 1  | 1     | 1     | 1     | 1  |       |       |       |    |    |    |     |    |    |    |    |          |     |     |       |       |       | 61 56   |     |
|      | Nov       | Max. Min. | 1     |    | 1  | 1   |    |            |    |    |       |       |       |    |       |       |       |    |    |    |     |    |    |    |    | 53 52    |     |     |       | 1     | 1     | -       |     |
|      | Oct       | Max. Win, |       |    |    |     | 28 | 59         | 09 | 19 | ថ     | 09    | 29    | 9  | 28    | 09    | 09    | 29 | 29 | 28 | 28  | 28 | 83 | 22 | 53 | 53       | 53  | 54  | 25    | 57    | 28    | 56      | п   |
|      | Sent      | n.        | 57    | 57 | 57 | 57  | 28 | 83         | 28 | 83 | 28    | 23    | 63    | 8  | 09    | 53    | 59    | 09 | 09 | 19 | 8   | 28 | 57 | 92 | 26 | 62 57    | 28  | 57  | 56    | 20    | 55    | 36      | 4,0 |
| 1945 | Aug       | in.       | 1     | 57 | 22 | 225 | 22 | 8          | 57 | 57 | 22    | 57    | 800   | 57 | 8     | 92    | 56    | 28 | 25 | 57 | 9.0 | 57 | 28 | 27 | 57 | 57       | 2.0 | 2.0 | 56    | 90    | 57    | 63 57 6 | 57  |
|      |           | Date      | ·     |    |    |     |    | <b>6</b> 1 |    | 00 | o ;   | 07;   | 17    | 21 |       |       | 2 5   |    |    |    |     |    |    |    |    | P 20     |     |     |       | 97    | 62    | 30      | 10  |

at Squaw Hill بر پو River County. B Sacramen to Tehama Diablo Vina, Tempe ra tures, W. west of N अं 24 N., miles Water C PA Daily Maximum and Minimum Thermograph located tw

Daily Laximum and Minimum Water Temperatures, Sacramento River at Squaw Hill Thermograph located two miles west of Vina, Tehama County, California Sec. 28, T. 24 N., R. 2 W., Mt. Diablo B. & M.

|      |            |      | G    |      | N. C.  | -      | To      | Tomporaturo, | - 1  | in do | dogroos | Fahronhoi | nhoit, | ~ I    |        |       | 1     |        | -    |       | ŀ      |       |      |
|------|------------|------|------|------|--------|--------|---------|--------------|------|-------|---------|-----------|--------|--------|--------|-------|-------|--------|------|-------|--------|-------|------|
|      | OH DE      | 3    | 100  | ŀ    |        | 1      |         | 4            | d    | A     | Outro   | Ann       |        | BING   | 1      | SOPTA | 1     | Oct    | 1    | NOV   | +      | Doc   | ,    |
| 8    | I.ax.      | I.in |      | 렰    |        | S      | X       | Max          | Min  | Max   | Misson  | Lax       | Min    | Max    | Sin. D | Sax 1 | Gio I | Max. I | Min. | ax.   | inelli | Barel | in.  |
|      | 46         | 43   |      |      |        |        |         |              | 1    | 62    | 53      |           |        | 63     | 57     | 61    | 55    |        |      | V     | -      |       | 46   |
| co . | 46         | 43   |      |      |        | -      | 50 49   | 1            | ı    | 63    | 55      | 65        | 61     | 63     | 57     | 61    | 54    | 59     | 54   | 55    | 52 1   | 2 2   | 47   |
|      | 44         | 40   |      |      |        |        |         | -            | 1    | 09    | 56      | 64        |        | 62     | 56     | 61    | 55    | 59     |      | S     | _      |       | 47   |
|      | 20         | 44   |      |      |        | -      |         | 1            | 1    | 28    | 53      | 62        | _      | 62     | 55     | 61    | 56    | 59     |      | 4     | -      |       | 46   |
|      | 50         | 48   |      |      |        | -      |         | 1            | 1    | 58    | 52      | 58        | -      | 62     | 56     | 61    | 55    | 58     | _    | 4     | -      |       | 44   |
|      | 51         | 47   |      |      |        |        |         | 54           | 1    | 9     | 53      | 59        |        | 62     | 56     | 61    | 56    | 59     | -    | 2     | 0      |       | 45   |
|      | 52         | 49   |      |      |        |        |         | 53           | 48   | 62    | 54      | 62        | _      | 62     | 57     | 61    | 57    | 09     | _    |       |        | 50 4  | 47   |
|      | 다          | 46   |      |      |        | _      |         | _            | 46   | 63    | 57      | 63        |        | 62     | 55     | 61    | 56    | 61     |      |       | _      |       | 49   |
|      | 48         | 7.7  |      |      |        | -      | 4       | 52           | 46   | 63    | 58      | 64        |        | 62     | 54     | 19    | 56    | 09     | -    |       |        |       | 47   |
| 10   | 47         | 43   | 45   | 40   | 22     | 45 5   | 54 45   | 26           | 46   | 19    | 56      | 65        |        | 61     | 54     | 61    | 56    | 60     |      |       | 50     |       | 47   |
| 12   | 47         |      |      |      |        | _      | 4       | 58           | 51   | [9]   | 54      | 64        |        | 61     | 54     | 61    | 56    |        |      |       |        |       | 47   |
| 27   | 47         |      |      | _    |        | _      | 41      | 67           | 52   | 62    | 55      | 65        |        | 61     | 53     | 19    | 56    |        | _    |       | -      |       | 49   |
| 13   | 47         |      |      |      |        |        |         | 28           | 57   | 63    | 55      | 99        |        | 61     | 55     | 62    | 57    |        | -    |       | -      |       | 44   |
| 44   | 4<br>80    |      |      |      |        |        | 1       | 58           | 뎞    | 63    | 55      | 99        |        | 62     | 55     | 9     | 57    |        |      |       | -      | 46 4  | 42   |
| 10   | 47         |      |      | -    |        | -      | 1       | 61           | 51   | 62    | 55      | 29        |        | 62     | 55     | 61    | 56    |        |      |       |        |       | 43   |
| 16   | 48         |      |      |      |        | 43     | 1       | 63           | 55   | 62    | 56      | 67        |        | 61     | 55     | 57    | 56    |        |      |       | -      |       | 43   |
| 17   | 48         |      |      |      |        | 43     | 1       | 9            | 56   | 63    | 55      | 99        |        | 61     | 54     | 57    | 55    |        |      |       | 48     |       | 43   |
| 18   | 49         |      |      | -    |        | _      | 1       | 56           | 53   | 62    | 54      | 99        |        | 61     | 56     | 57    | 54    |        |      |       |        | 47 4  | 43   |
| 19   | 48         |      |      | -    |        | _      | 90      | 54           | গ্ৰ  | 63    | 99      | 65        |        | 61     | 55     | 61    | 53    |        |      |       |        | 46 4  | 13   |
| 20   | 47         |      |      |      |        |        | 57 49   | 52           | 20   | 63    | 59      | 99        |        | 62     | 57     | 09    | 54    | 58     |      | 2     | 43     | 46 4  | 23   |
| 12   | 47         |      |      |      |        | _      |         | 58           | 20   | 65    | 59      | 99        | _      | 61     | 57     | 09    | 56    | 53     |      | 23    |        | 45 4  | 53   |
| 22   | 49         |      |      | _    | 49     |        | 51 47   | 62           | 52   | 64    | 59      | 99        | 61     | 58     | 999    | 59    | 55    |        | 53 5 | 2     | _      | 2     | 42   |
| 53   | 200        |      |      |      |        | _      |         | 64           | 54   | 64    | 58      | 63        |        | 09     | 54     | 59    | 53    |        |      | 3     | 48     |       | 10   |
| 500  | 10         |      |      | _    |        |        |         | 64           | 26   | 64    | 58      | 62        | _      | 61     | 1      | 58    | 52    |        | 53 5 | 4     | _      | 43 3  | 39   |
| 200  | 49         |      |      | _    |        | 5      | 54 47   | 65           | 57   | 65    | 58      | 62        |        | 61     | 55     | 57    | 51    |        |      |       | 49 4   | 44 4  | 40   |
| 0 20 | 46         | _    |      | _    |        |        | . 47    | 65           | 57   | 65    | 59      | 62        |        | 61     | 98     | 58    | 51    |        |      | 51    | 17     | 14 0  | 42   |
| 13   | 45         |      | 2    | 46   |        | 4      |         | 62           | 56   | 65    | 59      | 62        |        | 61     | 56     | 59    | 53    |        |      |       |        |       | 14   |
| 200  | 45         |      | 20   | 2    |        |        | 8       | 26           | 54   | 65    | 59      | 62        |        | 52     | 56     | 09    | 53    |        |      |       | _      | 46 4  | 42   |
| 200  | ري.<br>د : |      | 20   | 2    |        |        | 1       | 22           | 뎞    | 99    | [9]     | 63        |        | 62     | 55     | 60    | 55    | 54     | 50 5 | 50 4  | 46 4   | 2     | 13   |
| 300  | 45         | 41   |      |      | 54 4   | 91     | 1       | 22           | 21   | 29    | 62      | 63        |        | 61     | 55     | 60    | 54    | 54     | 49 5 |       | _      | 45 4  | 63   |
| 10   | 46         | 41   |      | 1    |        | 12     |         | 56           | 52   |       |         | 63        |        | 51     | 55     |       |       | 5.5    | 50   |       |        | 14 4  | 2    |
| Av.  | 45.5       | 43.4 | 47.5 | 43.3 | 49.7 4 | 14.8 5 | 3.3 46. | 1 58.0       | 51.6 | 62,8  | 56.4    | 63.9      | 58.4   | 61.5 5 | 5.35   | 0     | 54.7  | 58.0.5 | 53.7 | 52.04 | 48.847 | 0     | 44.0 |
|      |            |      |      |      |        | 1      |         |              |      |       |         |           |        |        |        |       |       |        |      |       | 1      |       |      |

TABLE 12

Deily Water Temperatures, Sacramento River at Ord's Ferry Tomperatures taken one-half mile east of Ordbond, Glenn County, California 21 N., R. 1 W., Mt. Diablo B. & M. E. 32, Sec.

September through December, a hand thermometer; from made with From January through June, readings were thermograph recordings were used,

at Knight's Landing County, California & M. River Yolo æ Knight's Landing, Diablo Sacramento Mt. 2 E. Tempe ratures, bridge; N. located at highway b Water 14, Minimum and Daily Maximin The rmograph

Daily Maximum and Minimum Water Temperatures, Sacramento diver at Knight's Landing.
Thermograph located at highway bridge, Knight's Landing, Yolo County, California Sec. 14, T. 11 N., R. 2 E., Mt. Diablo B. & M.
Tomnornture. in degrees Phreshelt. 1948

|         |       |       |        |       |        |     |        | Tompo | Tompora turo | or in | dogroom |       | phronhol | 3     | 1848   |       | -      |      | -    |        | -        | 1      |      |
|---------|-------|-------|--------|-------|--------|-----|--------|-------|--------------|-------|---------|-------|----------|-------|--------|-------|--------|------|------|--------|----------|--------|------|
|         | T.    |       | 700    | -     | Man    |     | Am     | 5     | May          |       | Juno    |       | Inly     |       | 111C.  | Son   | ot.    | Oate | 200  | MOV    |          | Dog    |      |
| The tro | METAL | Min.  | Max    | MA D  | Max    | in. | Maxe   | Min   | ax.          | in. M |         |       | ax, Min  | Ma    |        |       | Min.   |      | -    | Max. I |          | -      | C    |
| 3       | 5     | 50    |        | 46    | 573    |     |        | 52    |              | 48    |         | -     |          | 7     |        | 7     | 70     | 65   | _    | 57     | -        | 50 46  | 02   |
| 46      | 4 6   | 49    | 0 10   | 33.8  | 53.0   |     |        | 54    |              | 49    |         | -     | 99 6     | 7     |        | 7     | 7.1    | 99   |      | 58     |          |        | -    |
| 5 et    | 3 6   | 6 6   | 3 6    | 41    | 22 0   |     |        | 53    |              | 51    |         |       |          | 7     |        | 7     | 7.1    | 65   | _    | 59     | cát fijo |        | -    |
| > <     | 1 5   | 3 6   | 49     | 46    | 23 (2) | _   |        | 52    |              | 52    |         | -     | 99 0,    | 5 74  |        |       | 72     | 99   | 64   | 58     |          | 50 45  | 5    |
| , rc    | 202   | 47    | 49     | 47    | 53     | 49  | 54     | 51    | 54           | 52    | 63 . 60 |       | 71 67    | 7     | 8      | _     | 17     | 64   | -    | 58     | 54       |        | 00   |
| ) C     | 2,5   | 5.0   | 48     | 45    | 53     |     |        | 49    |              | 52    |         |       |          | 3 74  |        | 75    | 77     | 64   | 09   | 58     | 21       |        | 00   |
| -       | . r.  | 54    | 46     | 42    | 53     | _   |        | 48    |              | 54    |         | -     | T 68     | 7     |        | _     | 7.1    | 70   | 09   | 54     | 51       |        | -    |
| - @     | 27.00 | 54    | 47     | 44    | 53     |     |        | 49    | 58           | 55    |         | _     |          | 7     |        |       | Z      | 65   | 19   | 53     | 20       | 48 46  | 0    |
| 0       | 22.00 | 54    | 46     | 45    | 52     | 20  |        | 46    |              | 54    |         | -     |          | _     |        | -     | 7      | 29   | 62   | 53     | 48       | 50 47  | 1    |
|         | ) LC  | 5.53  | 47     | 44    | 52     | _   | 51     | 49    |              | 53    |         |       |          | 74    |        |       | 7.1    | 67   | 64   | 53     | 48       | 40 4   | -    |
|         | 20 00 | 22    | 48     | 44    | 52     |     | 51     | 49    |              | 25    |         |       |          | 1 74  |        | 94    | 72     | 99   | 64   | 52     | 47       |        | -    |
| 12      | ) rc  | 50.00 | 47     | 40    | 52     |     | 52     | 49    | 28           | 53    |         |       |          | _     |        | _     | 73     | 65   | 61   | 53     | 49       |        | 00   |
|         | 27.0  | 70    | 47     | 38    | 53.    |     | 52     | 52    | 56           | 54    |         | -     |          | 1 74  |        | 92    | 72     | 65   | 19   | 54     | 49       |        | 0    |
| 7       | n 0   | 7.7   | 14     | 43    | 200    |     | 22     | 50    | 238          | 55    |         | -     |          | 1 74  |        | -     | 77     | 65   | 64   | 55     | 51       | 50 47  | -    |
| 1 t     | ט כנ  | 2 7   | 47     | 2 4   | 2000   |     | 53.5   | 51    | 800          | 55    |         |       |          | 7     |        | _     | 72     | 64   | 61   | 53     | 51       | 51 48  | 0    |
| 91      | 7 5   | 77    | 40     | 45    | 3 6    |     | 53     | 51    | 59           | 55    |         | -     |          | 7     |        | -     | 7.1    | 65   | 61   | 55     | 51       |        | 9    |
| 24      | 2 5   | 47    | 49     | 47    | 200    |     | 53     |       | 58           | 56    |         | -     |          | 1 74  |        |       | 70     | 64   | 09   | 54     | 51       | 48 4   | S    |
| - 0     | 5 6   | 47    | F 15   | 48    | 3 [    |     | 22 (2) | 52    | 28           | 57    |         |       |          | _     |        |       | 68     | 64   | 09   | 53     | 49       | 4      | S    |
| 0 0     | 2 62  | 7.7   | 3 6    | 48    | 1 6    |     | . r.   | 52    | 60           | 58    |         |       |          | 7     |        |       | 68     | 64   | 09   | 52     | 20       | 49 47  | Com- |
| 000     | 3 62  | - C   | 100    | N W   | 3 12   |     | מו מ   | 52    | 23           | 55    |         | -     |          | 1 74  |        |       | 68     | 64   | 59   | 52     | 49       |        | 0    |
| 3 6     | 3 6   | 7 10  | 3 6    | 2 0   | 7.6    |     | 2 2    | 12.   | 200          | 53    | 68 6    | 66 7  |          | -     |        |       | 69     | 63   | 59   | 51     | 48       |        | 0    |
| 100     | מ כ   | 74    | 2 00   | 2 6   | 7 6    | 2 6 | 2 20   | 54    |              | 53    |         | _     |          | 0 75  |        |       | 68     | 63   | 09   | 52     | 48       |        | 0    |
| 3 60    | מ ל   | 47    | 3 00   | 20.00 | 2      |     | 55.0   | 52    | 59           | 55    |         | -     | 75 71    | _     |        | 7     | 89     | 63   | 59   | 52     | 47       | 47 40  | 0    |
| 24      | 1 6   | 48    | 2 15   | 48    | 51     |     | 55     | 51    | 61           | 59    | 65 6    | 62    |          | 2 74  |        |       | 68     | 63   | 90   | 52     | 67       | 46 -   |      |
| 25      | 5.4   | 200   | ر<br>ا | 47    | 5]     |     | 54     | 2     | 62           | 09    |         | _     |          | -     |        |       | 64     | 64   | 53   | 53     | 49       |        |      |
| 26      | , r.  | 8 6   | 2 5    | 47    | 48     |     | 55     | 53    | 62           | 61    |         |       |          | 7     |        |       | 19     | 63   | 58   | 52     | 48       |        | 7 1  |
| 27      | 22 0  | 48    | 52     | 50    | 48     |     | 55     | 53    | 64           | 62    |         | -     |          | -     |        | _     | 09     | 19   | 28   | 52     | 49       | υ<br>L |      |
| 28      | Cr    | 47    | 52     | 51    | 22     |     | 54     | 53    | 64           | 19    |         | 67 79 |          | 7     |        |       | 09     | 61   | 56   | 25     | 45       | Ωι     |      |
| 29      | 50    | 39    | 53     | 49    | 51     |     | 55     | 51    | 62           | 09    | 9 69    | _     |          | 7     |        | 65    | 19     | 09   | 26   | 51     | 4.7      | 2 0    |      |
| 30      | 6.7   | 42    |        |       | 52     | 49  | 51     | 48    | 61           | 58    | 69.     | 99    | 74 7     | 7 7   | 5 72   |       | 61     | 09   | 52   | 20     | 7.7      | 40 4   | 2 1  |
| 31      | 49    | 44    |        |       | 53     | 20  |        |       | 58           | 54    |         | +     |          | -     |        | -     |        | 28   | O    | - 1    |          | 7      | R2   |
| Av      |       |       | 49.4   | 44.3  | 51.9   |     | 53.6   | 51.1  | 57.5         | 55.0  | 65.4 62 | .4 7  | 3,5 69   | .9 74 | .5 71. | 0 72. | 3 68.5 | 64.0 | 60.2 | 53.7   | 40.0     | 4.3 40 | · .  |
|         |       |       |        |       |        |     |        |       |              |       |         | -     |          |       |        |       |        |      |      |        |          |        |      |

American River Daily Morning Water Temperatures, Sacramento River at Sacramento \* R. 4E.; Mt. Diablo B.& Sec. 35, T. 8N.,

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Sacramento. of City Sewers, and the Division of Water made available through data are These

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Hand thermometer readings taken at water works intake, one-half mile below mouth of American River Sec. 35, T. 8 N., R. 4 E., Mt. Diablo B. & M.

|        |              |            |          | Ton       | lomboro curo | in dogreos   | ranronnoi t, | 07 AT    |           |           |            |            |
|--------|--------------|------------|----------|-----------|--------------|--|--------------|----------|-----------|-----------|------------|------------|
|        | Jane         | rop        | Mar      | Apr.      | MOV          | June   | dula         | Aug      | Sont      | Oat       | Nov        | Dog        |
| Da da  | 8:30 A.M.    | 8:30 A 11  | 8:30 A W | 8:30 A.M. | 8:30 A.M.    | 8:30 A.M.  | 8:30 A M     | 8:30 A M | 8:30 A.M. | 8:30 A.N. | 8:30 A.E.  | 8:30 AM    |
| ~      | 51           | 50         | 50       |           | 58           | 29   | 75           | 75       |           | 68        | 58         | 4          |
| co .   | 57           | 50         | 50       | 50        | 59           | 1  | 76           | 75       | ,         | 99        | 23         | 00         |
| 20     | 51           | 50         | 1        |           | 59           | 63   | 76           | 92       | 72        | 8         |            | <b>4</b> 3 |
| 1      | r<br>S       | 1          | 50       |           | 57           | 64   | 1            | 1        | 7         | 199       | 57.        | A 4        |
| LO .   | 20           | <u>5</u>   | 50       |           | 1            | 65   | 78           | 77       | 7.1       | 64        |            | 000        |
| 8      | 50           | 50         | 57       |           | 57           | 67   | 78           | 77       | 17        |           | 555        | 0 CC       |
| *      |              | 50         | 52       |           | ı            | 67   | 1            | 77       | 77        | 64        | .n.        | ) 1        |
| 0      | 20           | 50         | 53       |           | 58           | 67   | 77           | 77       |           | 64        | . rc       | 82         |
| 0      | 50           | 50         | 54       |           | 59           | ı  | 77           | 77       | ,         | 64        | 55         | 0 00       |
| 2      | 50           | 50         | ı        |           | 09           | 69   | 77           | 77       | 7.7       | 64        | 1          | 48         |
| 7      | 20           | 1          | 54       |           | 09           | 70   | 76           | 1        | 17        | 64        | 1          | 9          |
| 20 (   | 20           | 20         | 54       |           | ı            | 70   | 75           | 79       | 77        | 65        | 53         | <b>₽</b>   |
| 100 H  | 20           | 50         | 53       |           | 09           | 77   | 75           | 79       | 72        | ,         | 52         | 50         |
| 74     | ı            | 49         | 53       |           | 61           | 72   | ı            | 78       | 72        | 65        | 52         | 1          |
| 16     | .46          | 49         | 52       |           | 61           | 72   | 75           | 77       | ı         | 68        | 57.53      | 43         |
| 16     | 46           | 67         | 52       |           | 61           | ı  | 73           | 75       | 77        | 99        | 55.5       | 22         |
| 57     | 1451<br>1451 | <b>4</b> 8 | 1        |           | 19           | 72   | 73           | 75       | 7.1       | 65        | 1          | 48         |
| 91     | 4-ত          | 1          | 54       |           | 61           | 72   | 72           | ı        | 7.1       | 99        | 53         | 40         |
| 61     | 45           | 48         | 54       | 59        | 1            | 72   | 72           | 75       | 7.1       | 99        | 52         | 64         |
| 02     | 44           | 48         | 54       | 59        | 63           | 72   | 72           | 75       | 70        | ı         | 21         | 4.9        |
| 12     | ı            | <b>4</b> 8 | 55       | ı         | 63           | 72   | . 1          | 75       | 70        | 99        | 1          |            |
| 223    | 4            | 1          | 56       | 59        | 63           | 72   | 7.4          | 75       | 1         | 65        | 50         | 50         |
| 200    | 44           | 48         | 56       | 59        | 63           | 1  | 75           | 75       | 70        | 64        | 67         | 50         |
| 52     | 44           | 48         | ı        | 57        | 63           | 73   | 77           | 73       | 70        | 63        | 1          | 1          |
| 0 0    | ζ. i         | 1          | 56       | 56        | 63           | 73   | 77           | ı        | 70        | 62        | 47         | 50         |
| 2 2    | 47           | 49         | 55       | 56        | 1            | 73   | 77           | 73       | 70        | 62        | 47         | 50         |
| 1.2    | Σ. ·         | 22         | 50       | 54        | 63           | 7.5  | 76           | ı        | 70        | ı         | 47         | 49         |
| 20 0   | 1            | 50         | 50       | 1         | 62           | 75   | ı            | 73       | 69        | 59        | 47         | 1          |
| 20 (2) | <b>2</b>     | 20         | 50       | 54        | 61           | 74   | 75           | 73       | ı         | 59        | 47         | 27         |
| 200    | 67           |            | 50       | 57        | 1            | ,  | 75           | 74       | 68        | 53        | ۲-<br>«کار | 300        |
| 21     | 49           |            | 1        |           | 62           |  | 75           | 74       |           | 58        |            | 8          |
| Av.    | 6.4          | 49.4       | 52.6     | 65.1      | 60.7         | 70.2   | 75.3         | 75.6     | 70.6      | 63.3      | 57.0       | 4 41       |
|        |              |            |          |           |              | Annual Property and Personal Property and Pe |              |          |           |           | ۰          |            |

These data are made available through the Division of Water and Sewers, City of Secrements.

Daily Morning Water Temperatures, Sacramento River at Sacramento\*
Hand thermometer readings taken at water works intake, one-half mile below mouth of American River

Sec. 35, T. SN., A. 4E., Mt. Diablo B.& M.

| Jan            | Fcb  | Mar       | Apr.      | May       | Ju        | July      | Aug       | Sept.     | Oct.      | Now.      | Do       |
|----------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Date 8:30 A.M. | 8    | 8:30 A.M. | 8:30 A.M. | 8:50 A.M. | 8:30 A.M. | 8:50 A.M. | 8:30 A.M. | 8:50 A.M. | 8:50 A.M. | 8:30 A.M. | 8:30A.M. |
| 8              | 64   | 52        | 54        | 58        | 1         | 7.1       | 78        | 1         | 64        | 58        | 209      |
| 47             | 8    |           | 53        | 53        | 19        | 72        | 92        | 72        | 64        | 1         | 61       |
| 47             | 49   | 51        | 52        | 57        | 61        | 72        | 4         | 72        | 25        | 28        | 52       |
| 47             | 49   | 51        | 52        | 1         | 62        | 3         | 74        | 72        | ı         | 1         | 52       |
|                | 49   | 50        | 52        | 55        | 62        | 73        | 74        | 72        | 1         | 58        | 20       |
| .46            | 49   | 50        | ı         | 55        | 63        | ŧ         | 75        | 74        | 63        | 58        | 48       |
| 46             | 49   | 51        | 52        | 55        | 63        | 92        | 75        | 1         | .63       | 53        | •        |
| 46             | 49   | 19        | 53        | 52        | •         | 77        | 75        | 73        | 63        | 29        | 49       |
| 47             | •    | •         | 54        | 57.       | 2         | 78        | 75        | 1         | 62        | 1         | 48       |
| 48             | 51   | 53        | 54        | 57        | \$        | 78        | ı         | 72        | 62        | 59        | -48      |
| 48             | 51   | 24        | 54        | 1         | 65        | 77        | 74        | 17        | •         | ,         | 48       |
| •              | 20   | 54        | 54        | 58        | 99        | 75        | 74        | 17        | 1         | 59        | 48       |
| 48             | 20   | 54        | 1         | 29        | 67        | ¢         | 75        | 17        | 61        | 59        | 48       |
| 48             | 49   | 24        | 54        | 09        | 67        | 75        | . 92      | 1         | 61        | 59        |          |
| 48             | 49   | 54        | 55        | 09        |           | 75        | 77        | 20        | 61        | 69        | 20       |
| 48             |      |           | 55        | 57        | 67        | 75        |           | 70        | 61        | 1         | 20       |
| 48             | 4.9  | 54        | 22        | 57        | 67        | 92        |           | 70        | 61        | 58        | 20       |
| 48             | 20   | 25        | 55        |           | 88        | 76        | 44        | 70        | 62        | 99        | 49       |
|                | . 51 | 54        | 55        | 58        | 68        | 77        | 7.7       | 20        | 1         | 54        | 49       |
| 48             | 51   | 54        | 1         | 58        | 68        | 1         | 92        | 69        | 29        |           | 49       |
| 48             | 51   | 24        | 56        | 59        | 68        | 78        | 75        | •         | 61        | 51        |          |
| 48             | •    | 54        | 57        | 09        | 1         | 30        | 75        | 99        | 19        | 20        | 49       |
| 48             |      | •         | 57        | 61        | 29        | 79        | 75        | 99        | 61        | ı         | 49       |
| 48             | 51   | 54        | 57        | 61        | 67        | 77        | •         | 65        | 61        | 48        | 48       |
| 48             | 52   | 25        | 58        | ı         | 67        | 75        | 76        | 65        | 61        | 48        | 1        |
| 1              | . 52 | 54        | 53        | 61        | 99        | 76        | 76        | 99        | 1         | 48        | 46       |
| 49             | 52   | 54        | •         | 09        | 99        | •         | 75        | 65        | 09        | 47        | 46       |
| 49             | 52   | 25        | 58        | 09        | 99        | 73        | 74        | 1         | 09        | 47        | •        |
| 49             |      | 54        | 58        | 09        | ı         | 7.8       | 73        | 99        | 59        | 48        | 45       |
| 49             |      |           | ଥିତ       | 1         | 20        | 75        | 72        | 2         | 23        | •         | 45       |
| 49             |      | 54        |           | 09        |           | 75        | 5         |           | 59        |           | 45       |
| 470            | 0 0  |           |           |           |           |           |           |           |           |           |          |

. Those data are made available through the Division of Water and Sewers, City of Sacramento.

Hand thermometer readings taken at water works intake, one-half mile below mouth of American River

Sec. 35, T. 8N., R. 4E., Mt. Diablo B.& M.

Tomporature, in degrees Fahronhoit, 1942

|              | 8.50A M   | 51 | 52  | 52 | 52  | 51  | 8   | 7.00 | *** | 4   | 4   | 46       | 40      |      | 46       | 9  | 46  | 46 | 3   | 98       | 9          | A  | 46 | 46      | 46 |    |    |     | 45  | 45 |      | 46  | 47.1 |
|--------------|-----------|----|-----|----|-----|-----|-----|------|-----|-----|-----|----------|---------|------|----------|----|-----|----|-----|----------|------------|----|----|---------|----|----|----|-----|-----|----|------|-----|------|
| ***          | R.SO A.M. |    | 67  |    | 57  | 56  | 55  | 52   | 1   | 53  | 500 | 1        | 55      | 10   | 10<br>10 | 1  | (U) | 80 | 58  | 62.5     | ().<br>*** | 8  | t  | 48      | 50 | 50 | 4  | 50  | 20  |    | 52   |     | 52.4 |
|              | 8.SO A.M. | 37 | 67  | 67 | 1   | 39  | 67  | 99   | 99  | 86  | 99  |          | 65      | 25   | 6.5      | 63 | 63  | 63 | 1   | 63       | 65         | 63 | 63 | 63      | 65 | 1  | 62 | 61  | 61  | 29 | 57   | 57  | 68.5 |
| +400         | 8:50 A.M. |    | 73  | 72 | 72  | 11  | 1   | 1    | 11  | 1   | 7.1 | 11       | 71      |      | 70       | 72 | 72  | 72 | 7.1 | 7.1      | t          | 70 | 69 | 69      | 69 | 69 | 68 | •   | 67  | 67 | 67   |     | 70.8 |
| And          | 8:30 A M  | -  |     | 75 | 75  | 75  | 75  | 75   | 77  | 1   | 76  | 75       | 76      | 94 . | 77       | 77 | 1   | 77 | 77  | 77       | 77         | 77 | 77 | ı       | 77 |    | 73 | 73  | 72  | 72 | ı    | 72  | 75.4 |
| Tuly ve lul. | 8:50 A.M. | 70 | 11  | 72 |     | ı   | 72  | 72   | 72  | 72  | 73  | 74       | 1       | 73   | 73       | 73 | 73  | 73 | 73  | 1        | 75         | 75 | 76 | 78      | 79 | 79 | 1  | 77  | 16  | 75 | 75   | 74  | 74.0 |
| Juni         |           |    | 69  | 69 | 69  | 60  | 09  | 1    | 09  | 61  | 61  | 63       | 63      | 63   |          | \$ | 64  | 84 | 64  | 99       | l          | 1  | 99 | 67      | 67 | 99 | 65 | 99  | 1   | 89 | 70   |     | 65.5 |
| May          | E.        | 1  | 53  | ı  | 54  | 55  | 26  | 57   | 57  | 57  | 57  | 1        | 55      | 55   | 54       | 54 | 54  | 54 | 8   | 55       | 57         | 58 | 09 | 69      | 28 |    | 57 | 57  | 54  | 54 | 56   |     | 55.8 |
| Anr.         | 77.       | 2  | 53  | 53 | 53  | 1   | 52  | 29   | 52  | 54  | 7   | 54       | ı       | 54   | 54       | 52 | 52  | 52 | 52  |          | 53         | 54 | 54 | 55      | 55 | 55 | ı  | 55  | 55  | 25 | 25   |     | 58.4 |
| Mar          | 8:50 A.M. | 1  | 47  | 47 | 48  | 49  | 20  | 20   | 1   | 21  | 51  | 19       | 51      | 21   | 61       | 1  | 46  | 48 | 48  | 64       | 649        | 20 | 1  | 51      | 21 | 51 | 51 | 51  | 51  | 1  | 52   | 25  | 49.9 |
| Fob.         | 8:30 A.M. | !  | 48  | 48 | 49  | 49  | 64  | 6.4  |     | 84  | 84  | <b>₩</b> | 80      | 48   | 46       |    | 45  | 45 | 46  | 46       | 46         | 47 | •  | 1       | 47 | 47 | 46 | 46  | 46  |    |      |     | 47.2 |
| Jan.         | 8:30 A.M. | ı  | 43  | 42 | . : | 41  | 14  | 14   | 42  | 59  | 45  | 0 :      | 45<br>C | 45   | 45       | 45 | 45  | 45 |     | ار<br>ان | 20.        | က  | 45 | 44<br>C | 46 |    | 64 | 9   | 0.4 | 48 | 47   | 4.1 | 44.9 |
|              | Dato      | -  | 2 1 | 2  | 4 1 | n ( | 0 8 | - (  | 000 | מ כ | 07  | 107      | 27 6    | 2 .  | 4.       | 15 | 91  | 17 | 97  | 19       | 02         | 12 | 22 | 223     | 57 | 52 | 92 | 1.7 | 200 | 62 | 3 00 | 70  | Av.  |

\* These data are made available through the Division of Water and Severs, City of Sacramento.

Daily Morning Weter Temperatures, Sacramento River at Sacramento\*
Hand thermometer readings taken at water works intake, one-half mile below mouth of American River

Sec. 35, T. SN., R 4E., Mt. Diablo B.& M.

Tomporature, in degrees Fahrenheit, 19 45

\* These date are made available through the Division of Water and Sewers, City of Sacremento.

Hand thermometer readings taken at water works intake, one-half mile below mouth of American River

Sec. 35, T. 8N., R 4E., Mt. Diablo B.& M.

| 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8                                 | 48888888888888888888888888888888888888   | 8;30 A.M.                               | 8650 A.N. | 8:30 A.M. |      |            | 1         |           | TATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLU | To Maria     |
|---|--|---|-----------|-----------|------|------------|-----------|-----------|--|--------------|
| \$   \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4                | \$\$ \$4 \$4 \$4 \$0 \$0 \$0 \$1 \$4 \$4 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 57        |           | 6    | 18:50 A.M. | 8:50 A.M. | 8:30 A.M. | 18 + 30 A.M.   | 8 - 50 A - M |
| ★★★★★   ★★★★<br>⑤ 55 75 75 75 75 75 75 75 75 75 75 75 75                | 44460000 10000 10000 10000 0000 0000 000   | 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |           | 61        | 75   | 7.8        | 72        | 99        | 60   |              |
| <u>ቁቁቁቁቁ   ቁቁቁቁቁ   ቁ</u> ቁቁቁ<br>ô የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ | 44 44 00 00 00 1 1 00 00 00 00 00 00 00 00 00  | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 58        | 09        |      | 72         | 72        | 65        | 60   | 4            |
| <u>ፋቀቀቀቀ   ፋቀቀቀቀ   ፋቀቀ</u><br>& ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ ዮ   | 4 4 4 70 70 70 70 1 70<br>8 8 8 0 11 8 4 1 4   | 55 55 4 5                               | 58        | 58        | 74   | 72         | ı         | 79        | 69   |              |
| <u>ቁቁቁ የ</u> ፋፋፋፋፋ የ ፡ ፋፋፋፋ<br>የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ        | **************************************   | 55 84 9                                 | 58        | ı         | 1    | 74         | 1         | 35        | 59   | 47           |
| <u>ፋፋቆ 1 ፋፋፋፋቀ</u><br>8 ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ ሺ           | 84400000 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0   | 55                                      | 58        | 9         | 73   | 74         | 72        | 2         | 1  | 47           |
|   | 8400000 1 1000 1 1000 1000 1000 1000 100   | 54                                      | 28        | 6.5       | 74   | 1          | 72        | 79        | 56   | 46           |
|   | 00 00 00 00 00 00 00 00 00 00 00 00 00   | -                                       | •         | 3         | 7.4  | 75         | 72        | 1         |  | 46           |
|   | 1 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  | 20                                      | 56        | 65        | 74   | 76         | 73        | 65        | 54   | 9            |
| ፋ ፋ ቁ ቁ ቁ ቁ ቁ ቁ ቁ<br>ሾ ሾ ሺ ሺ ሾ ሾ ሾ ሾ ሾ ሾ ሾ ሾ                            | 55 4 1 75<br>4 1 75  | 1                                       | 56        | 25        |      | 74         | 1         | 65        | 25   | 46           |
|   | Z . Z  | 54                                      | 56        | 8         | 74   | 74         | 1         |           | 54   | 1            |
| 4 4 4 4 1 4 4 4<br>R R R R R R R R R R R R                              | 1 2  | 54                                      | 56        | 1         | 74   | 76         | 75        | 63        | 1  | 4            |
| 4 4 4 1 4 4 4<br>0 0 0 0 0 0 0  | E.4  | 200                                     | 56        | 65        | 74   | 76         | 75        | 63        |  | 455          |
| 4 4 1 4 4 4 4<br>ውጤ የነው የነው የነ  |  | 55                                      | 26        | 65        | 75   | ı          | 75        | 65        | 50   | 45           |
|   | 229  | 53                                      |           | 65        | 75   | 75         | 72        |           | 20   | 45           |
|   | 20   | 52                                      | 99        | 63        | 78   | 78         | 71        | 63        | 50   | 4            |
|   | 64   | ı                                       |           | 62        | 1    | 72         | 70        | 65        | 49   | 44           |
|   | 6  | 25                                      | 99        | 29        | 77   | 72         | 1         | 63        | 49   |              |
| 45  | 40   | 53                                      | Z,        | 1         | 77   | 72         | 67        | 65        | 49   | 46           |
| 45  | L  | 53                                      | 55        | 99        | 77   | 72         | 99        | 63        | 1  | 45           |
| -   | 229  | 53                                      | 57        | 88        | 77   | ı          | 99        | 29        | 48   | 46           |
| 46  | 29   | 200                                     |           | 99        | 7.7  | 73         | 79        | 1         | 84   | 46           |
| 45  | 91   | 25                                      | 60        | 99        | 7.7  | 73         | 2         | 62        | 48   | 46           |
|   | 22   |   | 69        | 67        | 1    | 78         | 99        | 29        | ı  | 46           |
| 45  | 22   | 24                                      | 69        | 68        | 75   | 73         | 1         | 62        | 48   | 1            |
|   | 52   | **                                      | 20        | :         | 75   | 75         | 99        | 62        | 47   | •            |
| 45  | •  | 25                                      | 09        | 2         | 75   | 75         | 99        | 29        | 1  | 46           |
| 1 0   | 92   | <b>1</b>                                | 61        | 02        | 75   | ı          | 68        | 29        | 47   | 46           |
| 20  | 22   | 4                                       | 1         | 72        | 76   | 76         | 89        | 1         | 47   | 45           |
| 4,  | 200  | 24                                      | 61        | 72        | 75   | 74         | 68        | 19        | 47   | 45           |
| 4 1   | 22   | ı                                       | • 1       | 72        | 1    | 7.5        | 89        | 59        | 47   | 45           |
| 45  | 24   |   | 29        |           | 75   | 72         |           | 69        |  | 1            |
| Av. 45.0 47.5   | 5 51.0   | 53.6                                    | 57.6      | 65.2      | 75.£ | 75.4       | €9.4      | 62.7      | 51.5   | 45.7         |

\* These data are made available through the Division of Water and Sewers, City of Sacramento.

mile below mouth of American River Sacramento 100 River intake, one-half Diablo B.& Sacramento Mt. 1五. Temperatures, Works æ Water SN. H Hand thermometer readings taken at 35 Sec.

A Ø 5 0 61. 6.99 Sopt. 50 无 30 A. 70. 19 8 Fahrenheit, 73. しらら しちも すししなななす しなないのの ななななもで しっち degroos 63.5 in 54.5 Tomporatur 52. 8:30 A. E 8 9 46. 00 X Jan. 

of Sacramento. City and Sewers, of Water the Division available through made are deta These

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4.4

Hand thermometer readings taken at water works inter, one-half mile below mouth of American River Sec. 35, T. SN., R. 4E., Mt. Diablo B.& M.

|                 |         | 1,50m. F. |  | ###  |
|-----------------|---------|-----------|--|------|
|                 | Nov     | 50 A.M.   | 000 W W W 101010 1010  | 48.5 |
|                 | Oct     | 2         | 000 to 107 107 1070  | 58.4 |
|                 | Sopt.   | 30 A.M. 8 |  | 9.99 |
| 1946            | ь       |           | 555 - 555555 - 555555 - 555555 - 555555 - 555555                                       | 70.2 |
| Fahronhoit,     | July    |           | れなな ' なび ' なび外外外外 ' なのれなけび ' ひりけなける ' れれれ  | 72.3 |
| degroos         | June    |           | 61<br>62<br>63<br>63<br>63<br>63<br>63<br>63<br>63<br>63<br>63<br>63<br>63<br>63<br>63 | 64.9 |
| Tomporature, in | Liferar | 30 A.M. 8 |  | 55.4 |
| Tompo           | 25      | 8 W 7 12  | ######################################   | 52.5 |
|                 | Me.     | MAF X     | - £222226 - £££££ - £££2221 - 2£££££ - ££  | 48.9 |
|                 |         | TOD.      | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5  | 43.7 |
|                 | -       | Jane      | 4 0000 0044 00.000000 00 0044 00 1994  | 43.9 |
|                 |         |           | 20 0 0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | Av.  |

\* These data are made available through the Division of Water and Sewers, City of Sacramento.

Daily Morning Water Temperatures, Sacramento River at Sacramento \*\*
Hand thermometer readings taken at water works intake, one-half mile below mouth of American River Sec. 35, T. 8N., R. 4B., Mt. Diablo B.& M.

|                | J. C. | 8:30A.M.  |   | 44.5  |
|----------------|-------|-----------|---|-------|
|                | Non   | 8:30 A.M. | で 「 で 「 な な ひ 」 も と よ よ よ よ は ま は な な な な は 」 な な な よ に で こ な な な な ま は 」 な み な よ た は 」 な み な し で 。   | 47.7  |
|                | Oct   | 8:30 A.M. | 22222 122222 222222 122222 122222 122222 12222 12222 12222 12222 12222 12222 12222 12222 12222 12222 122222 12222 12222 12222 12222 12222 12222 12222 12222 12222 122222 12222  | ₽.65  |
|                | Sept. | 8:30 A.M. | 888655   818005   528888   7288888   7348888   73488888   73488888   73488888   73488888   73488888   7348888   73488888   73488888   73488888   73488888   73488888   7348888   73488888   73488888   73488888   73488888   73488888   7348888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   7348888   734888888   734888888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   73488888   734888888   734888888   734888888   734888888   73488888888   734888888   73488888888   734888888   734888888888   734888888   73488888888888   734888888888   7348888888   734888888888    | 68.2  |
|                | Aue.  | 8:30 A.M. | 22 - 222212 - 212222 - 2222 - 2222 - 2222 - 2222 - 2222 - 2222 - 2222 - 2222 - 2222 - 2222 - 2222 - 22  | 70.3  |
| Fahronhoit,    | July  | 8:30 A.M. | 251 - 5 - 555555         255555         <   | 72.0  |
| in degroos     | Juno  | 8:30 A.M. | 400400  44400   122554   22252   5  | 68.1  |
| Tomporaturo, i |       | 8:30 A.M. | \$-00000-00000   000000   00000   0000   0000   0000   0000   0000   0000   0000   0000   0000 | 63.4  |
| Tomi           |       | 8:30 A.M. | 72777777777777777777777777777777777777  | 56.2  |
|                | Mar.  | Σ         | 次   なかがなな   <b>なかがな   2000と</b> でで、   | 51.6  |
|                | F.b.  | 8:30 A.M. |   | t. 9t |
|                | Jane  | 8:30 A.M. | 1444   2500 x x   200 x x x   x x 200 4 4 1 7 7 7 7 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3   | 40.1  |
|                |       | Dato      | 22 22 22 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25   | Av.   |

\* These data are made available through the Division of Water and Severs, City of Sacramento.

below mouth of American River Sacramento at e water works intake, one-half mi Diable B.& Sacramento River 4E., Mt. Temperatures, œ 8N., E4 35 Daily Morning Water Hand thermometer readings taken at Sec.

' 즉 즉 즉 즉 0 49 0 60 60 5 <del>7</del>9 Scpt. 8:30 A. σ 19 48 Aug. 99 0000000 8000000 10000000 10000000 100 30 60 Fahronhoit, 70.5 July 8:30 A. dogreos 60.3 June 30 in 80 52.8 Tompo ra turo, · 2242254 · 4444 · 434454 · 434454 · 434454 · 44446 · 4446 · 4446 · 80 香 Apr 88 146 33222 80 42.3 1333344 1 크리크333 1 크라쿠라라라 1 1 관차라라라 30 80 X S キャナス しんりんけん 80 Date AV 

Sacremento. FO City Sewers, and Water the Division of made available through data are These

Daily Maximum and Minimum Water Temperatures, Sacramento River at Walnut Grove hermograph located on highway bridge at Walnut Grove, Sacramento County, California Sec. 35, 1, 5 N., 4, 13, 11t. Diablo, B. & M.

|    |            |      | G      |     |      |      |      | Tom     | Tomporaturo |      | in dog | degroos | - 1- | Fahronhoit, | 13   | 47   |      |      |      |      |      |      |       | 1    |
|----|------------|------|--------|-----|------|------|------|---------|-------------|------|--------|---------|------|-------------|------|------|------|------|------|------|------|------|-------|------|
|    | Jane       |      | O J    |     | OM   | Mar  |      | Apr     | May         | - 1  | 5      | June    | July | 'n          | Aug  | P.   | Sont | +    | Oct. | 1.   | Nov  |      | Dog   | 34   |
| BB | Lax        | lin. | i ax   | in. | ax.  | Min. | Lax. | c. Min. | ax.         | Min. | Eax.   | Min.    | lax. | Min.        | Max  | Min. | Max. | Min. | Max  | Min. | Max. | Min  | MaxeM | Min. |
| _  | 52         | 48   | 51.    | 48  | 56   | 54   | 1    | ,       | 65          | 62   | 70     | 68      | 74   | 72          | 75   | 74   | 73   | 69   | Ľ,   | 68   | 61   | 59   | 53    | 49   |
|    | Z<br>Z     | 48   | 552    | *   | 55   | 53   | 1    | 1       | 67          | 64   | 69     | 67      | 74   | 73          | 75   | 74   | 71   | 70   | 69   | 67   | 61   | 58   | 53    | 50   |
|    | 20         | 47   | 딩      | 47  | 54   | 53   | 1    | 1       | 63          | 65   | 69     | 29      | 74   | 72          | 75   | 73   | 74   | 7.1  | 69   | 68   | 58   | 56   | 55    | 52   |
|    | 20         | 46   | S      | 48  | 55   | 52   | ı    | 1       | 88          | 64   | 68     | 99      | 73   | Ľ           | 75   | 74   | 73   | 7.1  | 69   | 99   | 58   | 56   | 54    | 52   |
|    | 49         | 47   | 50     | 47  | 53   | 20   | í    | ı       | 29          | 64   | 68     | 67      | 74   | 72          | 92   | 73   | 74   | て    | 69   | 67   | 59   | 55   | 55    | 23   |
|    | 48         | 48   | 20     | 49  | 54   | CS   | ı    | 1       | 99          | 63   | 68     | 99      | 74   | 22          |      |      | 74   | 72   | 68   | 99   | 57   | 72,  | 53    | 5]   |
|    | 46         | 45   | SJ.    | 49  | 53   | 50   | 1    | 1       | 99          | 64   | 89     | 99      | 75   | 7.1         | 92   | 73   | 73   | 7.1  | 68   | 99   | 57   | 53   | 54    | 20   |
|    | 47         | 46   | r<br>S | S   | 52   | 51   | 1    | 1       | 29          | 64   | 89     | 99      | 73   | 7.1         | 94   |      | 72   | 72   | 68   | 65   | 57   | 53   | 53    | 51   |
|    | 48         | 46   | 20     | 48  | 52   | 51   | 22   | 52      | 68          | 63   | 68     | 99      | 74   | 7.1         | 75   |      | 73   | 77   | 67   | 65   | 56   | 54   | 53    | 49   |
|    | 48         | 47   | R<br>R | 48  | 52   | 20   | 23   | 55      | 65          | 63   | 68     | 65      | 72   | 77          | 75   | 72   | 73   | 70   | 65   | 64   | 56   | 52   | 51    | 48   |
|    | 48         | 45   | 50     | 48  | 53   | 20   | 23   | 56      | 65          | 63   | 29     | 65      | 72   | Ľ           | 75   | 72   | 73   | 70   | 65   | 63   | 56   | 52   | 51    | 48   |
|    | Ø ₹¹       | 47   | 51     | 84  | 22   | 22   | 58   | 99      | 65          | 63   | 67     | 65      | 73   | 72          | 74   | 73   | 72   | 70   | 64   | 19   | 54   | 52   | 51    | 47   |
|    | 48         | 45   | 52     | 49  | 53   | 51   | 09   | 57      | 65          | 63   | 89     | 67      | 73   | 72          | 74   | 72   | 73   | Ľ    | 19   | 59   | 56   | 52   | ਨ     | 47   |
| 14 | 47         | 45   | 51     | 20  | 55   | 57   | 61   | 59      | 99          | 63   | 70     | 68      | 73   | 72          | 73   | 72   | 1    | 72   | 62   | 59   | 53   | 51   | 51    | 47   |
|    | 48         | 45   | 51     | 49  | 26   | 53   | 62   | 59      | 99          | 25   | 7.1    | 69      | 73   | 72          | 74   | 72   | 72   | ı    | 62   | 09   | 54   | 51   | S     | 46   |
|    | 48         | 44   | 52     | 49  | 26   | 53   | 62   | 61      | 29          | 24   | 72     | 70      | 75   | 72          | 73   | 72   | 73   | 72   | 62   | 61   | 54   | 52   | 49    | 46   |
|    | 48         | 45   | 52     | 22  | 22   | 55   | 63   | 62      | 68          | 65   | 72     | 70      | 75   | 73          | 73   | 77   | 72   | 70   | 63   | 61   | 55   | 52   | 49    | 46   |
|    | 48         | 45   | 2]     | 1   | 28   | 56   | 65   | 62      | 20          | 67   | 73     | 72      | 75   | 73          | 73   | 72   | 72   | 69   | 63   | 61   | 54   | 52   | 25    | 47   |
|    | <b>4</b> 8 | 45   | 52     | යි  | 22   | 56   | 64   | 61      | 7.1         | 67   | 75     | 73      | 94   | 74          | 74   | 72   | 72   | 67   | 64   | 60   | 54   | 51   | 20    | 48   |
|    | 47         | 43   | 53     | 51  | 2,1  | 56   | 64   | 62      | 72          | 68   | 75     | 74      | 94   | 75          | 73   | 73   | 70   | 99   | 62   | 09   | 55   | 52   | 50    | 48   |
|    | 47         | 44   | 54     | 덦   | 29   | 56   | 65   | 61      | 72          | 20   | 75     |         | 94   | 75          | 74   | 22   | 69   | 99   | 63   | छ    | 55   | 51   | 50    | 48   |
|    | 48         | 44   | 22     | 52  | 53   | 57   | 64   | 61      | 73          | 70   | 74     |         | 16   | 74          | 74   | 77   | 89   | 99   | 63   | 9    | 54   | 51   | 50    | 49   |
|    | 49         | 45   | 55     | 52  | 29   | 56   | 63   | 09      | 73          | Ľ    | 75     |         | 75   | 73          | 73   | Z,   | 68   | 99   | 64   | 09   | 54   | 51   | 51    | 49   |
|    | 48         | 46   | 55     | 51  | 09   | 57   | 64   | 61      | 72          | 69   | 74     | 7       | 75   | 73          | 74   | 7.1  | 69   | 68   | 62   | 59   | 53   | 49   | 52    | 20   |
|    | 20         | 45   | 55     | 52  | 29   | 55   | 65   | 19      | 73          | 70   | 74     | 72      | 75   | 73          | 72   | 72   | 70   | 67   | 62   | 59   | 52   | 47   | 52    | 49   |
|    | 49         | 47   | 56     | 54  | 58   | 52   | 65   | 61      | 73          | 20   | 73     | 7       | 75   | 73          | 72   | 20   | 71   | 29   | 62   | 59   | 51   | 47   | 52    | 51   |
| 72 | 51         | S    | 56     | 54  | 22   | 56   | 65   | 63      | 72          | 69   | 73     | 72      | 75   | 73          | 73   | 17   | 7.1  | 68   | 61   | 09   | 51   | 48   | 53    | 51   |
|    | දු         | 20   | 57     | 54  | 57-  | 56   | 64   | 61      | 72          | 69   | 73     | 7.1     | 75   | 73          | 71   | 70   | 7.1  | 69   | 62   | 09   | 50   | 48   | 53    | 51   |
|    | 52         | 49   |        |     | 59   | 57   | 63   | 61      | 72          | 69   | 74     | 72      | 92   | 75          | 7.1  | 70   | 7.1  | 69   | 19   | 59   | 20   | 48   | 51    | 49   |
|    | 51         | 49   |        |     | 23   | 56   | 64   | 61      | 7.1         | 69   | 74     |         | 75   | 73          | 72   | 20   | 7.1  | 669  | 61   | 59   | 52   | 49   | 51    | 48   |
| 1  | 27         | 49   |        |     | 57   | 54   |      |         | 71          | 69   |        |         | 75   | 73          | 72   | 70   |      |      | 61   | 59   |      |      | 51    | 48   |
| A  | 48.8       | 46.3 | 52.3 4 | 8.6 | 55.9 | 53.6 | 62.5 | 59.8    | 6889        | 0.99 | 1.1    | 69.2    | 74.3 | 72.6        | 73.8 | 71.8 | 71.7 | 69.3 | 64.6 | 61.8 | 57.5 | 52,1 | 51.7  | 48.9 |
|    |            |      |        | 1   |      |      |      | 1       |             |      |        |         |      |             |      |      |      |      |      |      |      |      |       |      |

Thermograph located on highway bridge at Walnut Grove, Sacramento River at Walnut Grove,
Sec. 35, T. 5 N., R. 4 E., Mt. Diablo B. & M.

Thermograph 1948

|             |      | 4:5    | 9 1  | . 1 | ı  | ŧ   | 1  | E   | 1  | 48       | 48  | 48     | 49       | 23 | 50 | 47 | 48     | 47 | 45 | 44  | 45  | 45  | 43  | 38  | 41  | 37  | 44      | 43             | 41        | 41   | 40      | 43       | 77                | 44.€                                    |
|-------------|------|--------|------|-----|----|-----|----|-----|----|----------|-----|--------|----------|----|----|----|--------|----|----|-----|-----|-----|-----|-----|-----|-----|---------|----------------|-----------|--|---------|----------|-------------------|---|
|             | Dog  | XE     |      | 1   | 1  | 1   | *  | 1   | 1  | 50       | S   | 51     | 51       | 52 | 52 | 51 | 50     | 49 | 47 | 47  | 48  | 48  | 46  | 1.5 | 47  | 46  | 46      | 45             | 43        | 43   | 47°     | 45       | 10                | 47.7                                    |
|             |      | in. I  | 12.2 | 52  | 54 | 54  | 55 | Z   | 53 | 52       | 51  | 57     | 20       | 61 | 10 | 52 | 52     | 53 | 53 | 53  | 53  | 52  | 15  | R   | 49  | 0.5 | 500     | 0              | 50        | 507  | ω<br>ω  |          | -                 | 51.6                                    |
|             | Nov. | x. M   |      |     |    |     |    |     |    |          |     |        |          |    |    |    |        |    |    |     |     |     |     |     |     |     | (11)    | (2)            | RS        | Z.   | - 34    | 1        |                   | 5.6 5                                   |
|             |      | Zi.    | -    | 56  | 56 | 58  | 58 | 59  | 57 | 56       | -   |        | -        | 22 | 56 | 55 | 65     | 54 | 57 | 57  | 56  | 56  | 56  | 55  | 50  | 54  | 22      | 54             | 5         | 5  | 55      | 15<br>41 | Alleria.          | rO.                                     |
|             | Onta | Min    |      | 1   | 1  | E   | ı  | 62  | 62 | 62       | 63  | 63     | 69       | 63 | 62 | 62 | 19     | 62 | 61 | 61  | 61  | 9   | 59  | 9   | 59  | 9   | 09      | 59             | 59        | 58   | 59      | 57       | 57                | 30°                                     |
|             | ō    | Max.   |      | 1   | 1  |     | ı  | 99  | 65 | 65       | 65  | 99     | 65       | 64 | 64 | 64 | 64     | 64 | 64 | 64  | 64  | 63  | 63  | 63  | 63  | 62  | 63      | 62             | 63        | 63   | 62      | 63       | 9                 | 55.                                     |
|             |      | Min    | 68   | 89  | 68 | 68  | 68 | 68  | 67 | 67       | 89  | 89     | 68       | 89 | 69 | 69 | 68     | 67 | 67 | 65  | 65  | 65  | 64  | 64  | 53  | 64  | 65      | 64             | 64        | 62   | 61      | 61       | P-0423-6          | 6.9                                     |
|             | Sopt | Max    |      | _   | Н  | _   |    | _   | _  | 0        | _   | 0      | 0        | _  | Н  | 0  | 0      | 0  | m  | 8   | 7   | 10  | "   | "   | 10  | 10  | ~       | ~              | "         | 10   | ends    |          |                   | 3,56                                    |
|             |      | n. M   | -    |     | _  | -   |    |     | -  | 0 70     | -   |        | -        |    |    |    |        | _  |    |     |     |     |     |     |     | (A) | MORNIT. | Name of Street | - Company | THE CASE   |         | STANG!   | WEEK              | .5<br>5<br>8<br>8<br>8<br>8<br>8        |
| 9 48        | Auga | Ms.    |      |     |    |     |    |     |    | 202      |     |        |          |    |    |    |        |    |    |     |     |     |     |     |     |     |         |                |           |  |         | 99       | 68                | 6 68                                    |
| t, 19       |      | Max    | 74   | 74  | 73 | 73  | 73 | 73  | 73 | 73       | 72  | 69     | 2        | て  | 17 | 77 | 17     | 72 | 17 | 77  | 77  | Z Z | 72  | 77  | 2   | 70  | 20      | 70             | 2         | 70   | 20      | 70       | North North       |   |
| rahronhot   | 24   | Min    | 70   | 70  | 70 | 70  | 69 | 68  | 68 | 67       | 68  | 68     | 69       | 70 | 7  | 72 | 73     | 74 | 76 | 75  | 75  | 74  | 74  | 75  | 74  | 73  | 72      | 72             | 77        | 72   | 72      | 70       | 70                | 71.3                                    |
| anro        | Jul  | Maxa   | 72   | 73  | 73 | 72  | Ľ  | 69  | 20 | 20       | 20  | 20     | 7        | 72 | 73 | 74 | 73     | 94 | 78 | 78  | 77  | 76  | 94  | 27  | 94  | 75  | 74      | 74             | 75        | 74   | 74      | 73       | 74                | 73.9                                    |
| 10          | 6    | Min    | -    | 99  | 23 | 59  | 59 | 58  | 58 | 59       | 09  | 61     | 61       | 62 | 62 | 62 | 19     | 62 | 63 | 63  | 64  | 65  | 65  | 65  | 65  | 99  | 29      | 68             | 69        | 89   | 69      | 20       | ESSURE            | 2.77                                    |
| dogroo      | Jun  | Mex. N |      | 89  | 00 | 31  | 00 | ᇋ   | 00 | 09       | 22  | 33     | 33       |    |    |    |        |    |    |     |     |     |     |     |     |     |         |                |           |  | prof    | N        |                   | 9 9,                                    |
| 1n          |      |        | -    |     |    | _   |    | _   |    | _        |     |        | _        | _  |    | _  |        | -  |    | _   |     |     |     |     | _   |     |         |                |           | Deminion of the last of the la | markets |          |                   | 4 64                                    |
| uro         | May  | 2      |      |     |    |     |    |     |    | 58       |     |        |          |    |    |    |        |    |    |     |     |     |     |     |     |     |         |                |           |  | 59      | 53       | 56                | 56.                                     |
| omporo turo | Z    | Max    | 54   | 54  | 22 | 56  | 58 | 29  | 8  | 69       | 9   | 59     | 59       | 29 | 59 | 09 | 09     | 9  | 59 | 59  | 59  | 57  | 99  | 26  | 58  | 9   | 61      | 61             | 19        | 61   | 9       | 8        | 59                | 58,8                                    |
| Tom         | ļ    | Min    | 54   | 54  | 28 | 54  | 52 | 51  | 50 | 51       | 50  | 51     | 51       | 20 | 51 | 52 | C<br>C | 52 | 52 | 52  | 53  | 53  | 54  | 54  | 72  | 54  | 54      | 56             | 54        | 55   | 54      | 27       | Service.          | 52,6                                    |
|             | Apr. | Max    |      |     |    |     |    |     |    | 53       |     |        |          |    |    |    |        |    |    |     |     |     |     |     |     |     |         |                |           |  |         |          | and to the second | 7 0                                     |
|             |      | 20     |      | -   | _  | _   |    | -   | -  | -        | -   | -      | -        | -  | -  |    |        |    | -  | -   |     | -   | -   | _   |     | _   | _       | пария          | -         |  |         | Pello    |                   | .4 55                                   |
|             | Mare | X. Mi  |      |     |    |     |    |     |    | 51       |     |        |          |    |    |    |        |    |    |     |     |     |     |     |     |     |         |                |           | 49   |         |          | 53                | .1 50                                   |
|             | 2    | M      |      | -   | -  |     | _  |     | -  | 54       | _   | -      | -        | -  | _  |    |        | 53 | 52 | 52  | 52  | 53  | 54  | 53  | 53  | 54  | 52      | 52             | 5]        | 52   | 53      | 53       | 55                | 5 53                                    |
|             | 20   | Min    | 46   | 45  | 45 | 46  | 47 | 46  | 46 | 45       | \$  | 45     | 46       | 45 | 45 | 45 | 45     | 1  | 1  | 1   | 1   | 1   | t   | E   | 8   | 1   | 48      | 20             | 27        | 52   | 20      |          |                   | 46.                                     |
|             | Fob  | axe    | 48.  | යි  | 49 | 49  | 48 | 48  | 49 | 49       | 47  | 47     | 48       | 49 | 49 | 48 | 48     | ı  | 1  | 1   | ı   | 1   | ı   | 1   | 1   | 20  | 53      | 52             | 53        | 53   | 54      |          |                   | 13.7                                    |
|             |      | in.    | 47   | 46  | 47 | 46  | 24 | 18  | 2  | 48       | 49  | ا<br>ا | <u> </u> | 48 | 48 | 17 | 47     | 46 | 47 | 7.7 | 91  | 91  | 46  | 9   | 9   | 1   | 0       | ω.             | ري        |  | <u></u> | 0        | 121               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |
|             | Jane | x. Mi  |      |     |    |     |    |     |    |          |     |        |          |    |    |    |        |    |    |     |     |     |     |     |     |     |         |                |           |  |         |          | Jan agenty        |   |
|             |      | ಪ      | 4    | 4   | 4  | 4   | 4  | (y) | 45 | 52       | 2   | 2      | വ        | ດ  | in | വ  | က်     | വ് | ໂລ | ຂັ້ | ic. | ຄົນ | (3) | 2   | 45  | 51  | 52      | Q.             | C.        | r<br>S   | [3      | C C      | 20                | PRODUTE                                 |
|             |      | Date   | 7    | S   | 80 | di. | S. | တ   | -  | <b>B</b> | 0 6 | 07:    | 1;       | 27 | 10 | 4  | 12     | 97 | 17 | P   | 57  | 20  | 77  | N I | N ( | 200 | S<br>S  | 56             | 2         | ಬ್ಬ  | G)      | 30       | 33.               | 7 1 2 2                                 |

Daily Maximum and Minimum Water Temperatures, Sacraneuto River at Lio Vista
Thermograph located on U. S. Engineers dock one mile south of Rio Vists, Sclaus County, California
Sec. 36, T. 4 N., R. 2 E., Mt. Diablo B. & M.
Temperature in decreas Potronia, 19 48

|              |       |                  | 6      |      | - 1  |        | 1      | Tomp    | Tompo ra turo | o in   | 미      | - 1- | rahronhoit | hort     | 9    | 48     | Charles and | +        |      | 1    | -     |      |         | i     |
|--------------|-------|------------------|--------|------|------|--------|--------|---------|---------------|--------|--------|------|------------|----------|------|--------|-------------|----------|------|------|-------|------|---------|-------|
|              | nof   | D's              | rope   | 30   | NO N |        | Apr    | 1       | MOV           | 1      | Ound   |      | July,      |          | ALLE | ·      | Sart        | Acres de | Octo | 1    | Nov   |      | Doc     | Can   |
| Da S         | I RX. | 44               | I.ax.  | win. | e    | Min    |        | F       | MaxeM         | Min    | Mar. N | Min  | Max        | Mf. n.   | Max  | Min.   |             | Min      | Maxa | Min  | T'est | Min  | Laxalia | Jisn, |
| ~            | 95    | 45               | 46     | 45   | 51   | 49     |        |         |               |        |        |      |            | MET MADE | 6    | 1      |             |          | 1    | 1    | 1     | 1    | 50      | 20    |
| C2           | 46    | 45               | 45     | 43   | 20   | 49     |        | 54      | 55            | 52     | 9      | 58   | 7.1        | 70       | 72   | 1      | 74          | 7.1      | ı    | 1    | 1     | 1    | 21      | 50    |
| ·0           | 47    | 46               | 45     | 43   | 22   | 48     |        | 54      | 56            | 54     | 09     | 58   | 72         | 70       | 75   | 70     | 1           | 7.1      | 1    | 1    | 8     | ı    | 50      | 20    |
| 4            | 47    | 46               | 44     | 43   | 23   | 48     |        | 53      | 58            | 55     | 61     | 8    | 7.1        | 69       | 72   | 70     | 1           | 1        | t    | 1    | 56    | 55   | 20      | 49    |
| က            | 47    | 46               | 44     | 43   | 50   | 49     |        | 52      | 09            | 57     | 63     | 09   | 20         | 69       | 75   | 70     | 1           | 1        | 1    | 1    | 56    | 55   | 22      | 49    |
| 100          | 47    | 46               | 44     | 43   | 51   | 49     |        | 51      | 62            | 59     | 63     | 61   | 17         | 69       | 74   | Z,     | 1           | -        | 99   | 64   | 57    | 55   | 49      | 49    |
| -            | 48    | 47               | 45     | 43   | 51   | 23     | 52     | 20      | 61            | 9      | 63     | 61   | 20         | 69       | 73   | r<br>r | 74          | に        | 89   | 64   | 55    | 53   | 50      | 49    |
| <b>x</b> (   | 48    | 47               | 45     | 44   | 20   | 49     | 51     | 23      | 62            | 09     | 62     | 09   | 20         | 69       | 72   |        | 73          | 70       | 89   | 65   | 55    | 53   | 20      | 49    |
|              | 49    | 47               | 45     | 44   | 00   | 200    | 200    | i<br>Si | 61            | 59     | 64     | 19   | 70         | 69       | 72   | 70     | 74          | Ę,       | 99   | 65   | 55    | 53   | 50      | 49    |
| 2;           | 440   | Δ <sub>1</sub> , |        | 24.0 | 51   | 449    | 25     | 12      | 19            | 59     | 65     |      | 7.1        | 69       | 72   | -      | 74          | 7.1      |      | 64   | 53    | 53   | 20      | 20    |
|              | 48    | 47               | 44     | 42   | 52   | 50     | 53     | 52      | 61            | 28     | 99     | 63   | 17         | 20       | 71   | -      | 72          | 17       |      | 64   | 54    | 53   | 20      | 49    |
| 77           | 20    | 47               | 44     | 42   | 21   | R      | 53     | 20      | 19            | 28     | 99     | 64   | 20         | 69       | 7.1  | -      | 74          | 77       |      | 64   | 53    | 53   | 20      | 49    |
| 13           | 49    | 48               | 44     | 42   | 51   | 51     | 52     | 51      | 61            | 59     | 99     | 69   | 72         | 69       | 17   | -      | 75          | 17       |      | 63   | 54    | 52   | 20      | 49    |
| 14           | 49    | 47               | 46     | 43   | 52   | 20     | 53     | 51      | 62            | 59     | 65     | 59   | 74         | 69       | 17   |        | 72          | 7.1      |      | 62   | 52    | 52   | 20      | 49    |
| 15           | 48    | 47               | 44     | 44   | 52   | 23     | 54     | 52      | 63            | 61     | 65     | 65   | 73         | 70       | 20   | -      | 77          | 202      |      | 63   | 53    | 53   | 23      | 49    |
| 18           | 48    | 46               | 46     | 44   | 51   | S<br>S | 54     | 53      | 62            | 09     | 64     | 64   | 74         | 72       | 20   | -      | 70          | 69       | 64   | 63   | 54    | 52   | 50      | 49    |
| 17           | 48    | 46               | 46     | 44   | 27   | 50     | 56     | 53      | 19            | 09     | 65     | 64   | 75         | 73       | 17   |        | 69          | 69       |      | 62   | 53    | 53   | 23      | 49    |
| 18           | 47    | 46               | 46     | 43   | 21   | 49     | 55     | 53      | 8             | 59     | 99     | 65   | 74         | 72       | 70   | _      | 69          | 68       |      | 63   | 54    | 52   | 20      | 48    |
| 13           | 47    | 46               | 47     | 45   | 20   | 49     | 56     | 55      | 59            | 58     | 89     | 64   | 75         | 73       | 72   | _      | 70          | 67       |      | 62   | 53    | 53   | 49      | 49    |
| 02           | 46    | 44               | 47     | 46   | 51   | 49     | 56     | 54      | 58            | 57     | 89     | 99   | 75         | 72       | 74   |        | 69          | 68       | 65   | 62   | 54    | 53   | 67      | 48    |
| 21           | 46    | 44               | 49     | 47   | 51   | 50     | 56     | 54      | 9             | 26     | 68     | 99   | 72         | 1        | 72   | -      | 67          | 99       |      | 63   | 54    | 52   | 48      | 48    |
| 25           | 47    | \$               | 49     | 48   | 51   | 20     | 57     | 55      | 62            | 56     | 29     | 99   | 1          | 1        | 7.1  | -      | 68          | 99       |      | 62   | 53    | 52   | 49      | 48    |
| 23           | 47    | 46               | 49     | 48   | 51   | 20     | 57     | 54      | 09            | 58     | 68     | 99   | ı          | 1        | 72   |        | 99          | 65       |      | 63   | 53    | 52   | 48      | 47    |
| 54           | 48    | 46               | 49     | 48   | 51   | 20     | 58     | 55      | 59            | 59     | 69     | 68   | 1          | 1        | 73   | -      | 29          | 65       |      | 62   | 52    | 52   | 47      | 47    |
| 22           | 47    | 45               | S<br>S | 47   | 52   | S      | 59     | 56      | 62            | 09     | 89     | 68   | 1          | 1        | 72   | -      | 65          | 64       |      | 62   | 53    | 52   | 47      | 46    |
| 56           | 45    | 45               | 20     | 49   | 51   | 49     | 59     | 56      | 63            | 19     | 69     | 68   | 1          | 8        | 12   | 70     | 99          | 64       | 63   | 62   | 52    | 51   | 47      | 45    |
| 27           | 45    | 44               | 50     | 49   | 52   | 48     | 58     | 57      | 63            | 62     | 69     | 89   | ı          | 1        | 73   |        | 67          | 64       |      | 19   | 51    | 50   | 46      | 46    |
| 92           | 46    | 44               | 20     | 49   | 22   | 49     | 24     | 56      |               | 61     | 70     | 69   |            | ı        | 72   | -      | 67          | 65       |      | 09   | 51    | 50   | 43      | 42    |
| 50 0         | 47    | 44               | 21     | 49   | 51   | 49     | 26     | 54      |               | 61     | 70     | 69   |            | 1        | 72   | _      | 99          | 64       |      | 60   | 51    | 50   | 42      | 42    |
| 35           | 47    | 45               |        |      | 52   | 20     | 54     | 53      | 62            | 61     | 7.1    | 70   | 1          | 1        | 7.1  | _      | 99          | 64       |      | 59   | 51    | 51   | 43      | 41    |
| 27           | 4.7   | 45               |        |      | 54   | 52     |        |         | 61            | 9      |        |      | 1          | 1        | 73   | 70     |             |          |      | 58   |       |      | 42      | 42    |
| Av.          | 47.3  | 45.5             | 46.5   | 45.0 | 51.1 | 49.5   | 54.8 5 | 3.3     | 60.4 5        | 58.4 5 | 5.6 6  | 3.7  | 72.0 7     | 70.1     | 77.9 | 9.69   | 8.69        | 68.89    | 63.7 | 62.4 | 53.4  | 52.4 | 48.4    | 47.6  |
| - Commonweal |       |                  |        |      |      |        |        | 1       |               | 1      | ۱      | 1    | 1          | _ 2      |      |        |             | -        |      |      |       |      |         |       |

Hand thermometer readings taken 100 yards upstream from highway bridgs at Lewiston, Trinity County, California Sec. 18, T. 33 N., R. 8 W., Mt. Diablo B. & M.

Tomporaturo, in degrees Fahronhoit, 1942 and 1943

| -    | V Aug Sept. | Pr 8 AM 5 Pr 8 AN 5E' 8AM |        |      | - 74  | 68 75 | 68 75                                   | 66 75 | - 99  | - 99 | 76 65 - 66 | - 99  | -   29 | -   29 | - 19 | - 89  |       | 75 65 - |       | 9   | ဖ  | 9     | 72 65 - | 9     | 9  | 9     | 9     | 9     | 9       | 75 64 - | 9 7   | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 00 | 74.8.55.2.174.5.64.9   |
|------|-------------|---------------------------|--------|------|-------|-------|---|-------|-------|------|------------|-------|--------|--------|------|-------|-------|---------|-------|-----|----|-------|---------|-------|----|-------|-------|-------|---------|---------|-------|---|----|--|
| +    |             | 5 PW 8 AM 5               |        |      |       |       |   |       |       |      |            |       |        |        |      |       |       |         |       |     |    |       |         |       |    |       |       |       |         |         |       |   |    | Section of the second section of the section of the second section of the section of the second section of the section of |
| ;    | May         | 5 PM 8 AM                 |        |      |       |       |   |       |       |      | 53 49      |       |        |        |      | 50 49 | 1     | 1       | 1     | 1   | 1  | 1     |         | 1     | 1  | 1     | 1     | 1     | 1       | 1       | 1     |   |    | 52,2 40,2  |
|      | Apr         | PM 8 AM                   | 9 45   | 6 47 | 1 47  | 1 48  | 45                                      | 44    | 5 43  | 44   | 45         | 47    |        | 48     | 48   |       |       |         | 11 48 |     |    | 16 46 | 47 46   | 19 47 |    | 49 46 |       |       |         | 48 45   | 50 46 | 6                                       |    | 44 7 148 9 46 7 52 2   |
|      | Mar         | PA 8 AM 5                 | 42     | 43   | 44    | 45    | 45                                      | 45    | 45    | 44   | 45         | 45    | 45     | 45     | 46   | 44    | 4     | 4       | 43    | 43  | 43 | 42    | 44 42 4 | 45    | 44 |       | 47    | 48    | 9 45    | 8 45    | 5 44  | 23                                      |    | 45.8 44.1  |
|      | Feb         | PM 8 AM 5                 | 0 39 4 | 2 40 | 3 42  | 2 42  | 2 42                                    | 2 42  | _     | 1 43 | 39         | 40    | 41     | 4      | 41   | 40    | 40    | 40      | 42    | 42  | 43 | 42    | 43 43 4 | 43    | 44 | 43    | 40    | 41    | 45 44 4 | 4       | 4     | 4                                       | 7  | 42.6.47.2 4  |
| 1943 | Jan         | -                         | 41 41  | 41   | 4     | 41    | 41                                      | 41    | _     | 39   | 38         | 38    | 37     | 37     | 38   | 37    | 37    | 37      | 37    | 36  | 37 | 35    | 36 34   | 38    | 37 | 39    | 39    | 40    | 4       | 40      |       | 39 39                                   |    | 5  |
|      |             | 5                         |        |      |       |       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |       |       |      |            |       |        |        |      |       |       |         |       |     |    |       |         |       |    |       |       |       |         |         |       |   |    |  |
|      | Dec         | S PIT R AM                | 44     |      | 43 42 |       |   |       | 39 37 |      |            | 42 41 |        |        | ,    |       | 42 41 |         |       |     |    |       | 41 41   |       |    | 41 40 | 42 42 | 39 38 | 39 39   | 40 39   | 1     | 0                                       |    | 41.2 40  |
| 1942 | Nov.        |                           | '      |      |       |       |   |       | 53 51 |      |            |       |        |        |      |       | 48 47 |         |       |     |    |       | 44 44   |       |    |       | 45 46 | 45 45 |         | 4       | 4     | - 47                                    |    | 47.1 45.6  |
|      |             | Do to                     |        | ~    | 80    | 4     | ທ                                       | 9     | 7     | 80   | 6          | 10    | 11     | 12     | 13   | 14    | 16    | 16      | 17    | 3.8 | 19 | 20    | 23      | 22    | 23 | 24    | 25    | 26    | 27      | 28      | 29    | 30                                      | 31 | Av.  |

California River at Lewiston Lewiston, Trinity County, -8 bridge at Water Temperatures, from highway W. Mt. R. 8 thermometer readings taken 100 yards upstream N., T. 33 18, Sec. Hand

Daily Maximum and Minimum Water Temperatures, Trinity River at Lewiston
Thermograph located 100 yards upstream from highway bridge at Lewiston, Trinity County, California
Sec. 18, T. 33 N., R. 8 W., Mt. Diablo B. & M.

|               |       | 1:5      | 43 | 43  | 42  | 39 | 41 | 42 | 42   | 41 | 40 | 40 | 40 | 37   | 35  | 34   | 35   | 37      | 38 | 38   | 37   | 37 | 38 | 39  | 40  | 42   | 42   | 42         | 42  | 43  | 42  | 22             | 39.8   |
|---------------|-------|----------|----|-----|-----|----|----|----|------|----|----|----|----|------|-----|------|------|---------|----|------|------|----|----|-----|-----|------|------|------------|-----|-----|-----|----------------|--------|
|               | Doc   | Max. Nin | 43 | 45  | 44  | 42 | 43 | 44 | 45   | 42 | 41 | 42 | 42 | 70   | 330 | 36   | 37   | 40      | 40 | 39   | 39   | 39 | 39 | 41  | 42  | 42   | 43   | 43         | 44  | 44  | 43  | 87 K           | 41.5 3 |
|               | -     | ling     | -  | 50  |     | _  | -  | 4  | 4    | 4  | 4  | 44 | ママ | 52   | 44  | 44   | 3    | <u></u> |    |      | 4    | 4  | 3  | 13  | 4   | 14   | 42   | 33         | 4   | 43  |     | 2              | 44.3   |
|               | Nov   |          |    |     |     |    |    | 48 |      | ထ  |    |    | 3  | 43 4 |     |      |      |         |    |      |      |    | 5  | 5   | 6 4 | 5    |      | 5          | 5 4 |     |     | 4              | 46.6   |
|               |       | i n      |    |     |     |    |    |    |      |    |    |    |    | -    |     |      |      |         |    |      |      |    |    |     |     |      | 3 43 | 45         |     | 45  |     | 4,             | 5.8    |
|               | Oct.  |          |    |     |     |    |    | 57 |      |    |    | 62 | 9  |      |     |      |      | 60      | 59 |      | 57   |    | 55 |     |     | 48   | 48   | 48         | 51  | 52  | 49  | 14             | 2.9 5  |
|               |       | a. Ma    | 67 | 99  | 64  | 63 | 65 | 67 | 68   | 68 | 67 | 69 | 69 | 69   | 69  | 68   | 65   | 65      | 67 | 99   | 65   | 65 | 9  | 58  | 58  | 57   | 19   | 99         | 54  | 53  | 53  | 50             | 9      |
|               | Sort. | Mi       |    |     |     | 63 |    |    | 9    |    |    | 64 | 99 | 99   | 67  | 65   | 64   | 63      | 62 | 63   | 62   | 19 | 59 | 58  | 56  | 56   | 24   | 56         | 55  | 54  | 55  | 52             | .3 61  |
|               | S     | Max      | 76 | 76  | 75  | 76 | 76 | 74 | 75   | 75 | 76 | 77 | 78 | 78   | 78  | 77   | 75   | 73      | 73 | 73   | 73   | 68 | 99 | 99  | 67  | 68   | 68   | 99         | 65  | 99  | 99  | 67             | 72     |
| 45            | Aue   | Min      | 89 | 67  | 29  | 99 | 68 | 71 | 68   | 67 | 89 | 20 | 68 | 67   | 65  | 65   | 99   | 99      | 99 | 69   | 29   | 67 | 67 | 29  | 67  | 99   | 63   | 63         | 64  | 64  | 65  | 64             | 6 66.  |
| t, 1945       |       | Max      | 81 | 80  | 80  | 81 | 81 | 81 | 80   | 81 | 82 | 81 | 81 | 79   | 4   | 78   | 79   | 79      | 80 | 75   | 43   | 80 | 80 | 80  | 46  | 92   | 74   | 75         | 75  | 74  | 74  | 77             | 8      |
| ahoit         | >     | Min      | 62 | 64  | 99  | 99 | 99 | 67 | 68   | 69 | 69 | 67 | 99 | 69   | 69  | 70   | 68   | 69      | 68 | 89   | 99   | 64 | 64 | ,   | 20  | 70   | 69   | 69         | 20  | 7.  | 8   | 68             | 67.7   |
| Fahronhoi     | Jul   | Max.     | 72 | 74  | 75  | 75 | 9/ | 94 | 77   | 82 | 13 | 73 | 9, |      |     |      |      | 46      |    |      |      |    | 80 |     |     |      |      |            |     |     |     | 8080           | 53     |
| · so          | -     | in       | 3  | 80  | 3   | 10 | 2  |    | 54 7 | _  |    |    |    |      | _   |      |      |         |    |      |      |    | _  |     |     |      |      |            |     |     |     | 8 8            | 5      |
| degroo        | June  | X. M     |    |     |     |    |    |    |      |    |    |    |    | 57   | 57  | 52   | . 55 | 56      | 57 |      | 19 1 |    |    |     |     |      |      |            |     |     | 61  |                | .3 57  |
| ln            |       | n. Ma    | 58 | 200 | 5   | 58 | 56 | 58 | 59   | 55 | 9  | 19 | 62 | 62   | 61  | 9    | 19   | 63      | 65 | 67   | 68   | 69 | 69 | 67  | 69  | 99   | 65   | 99         | 68  | 69  | 2   | 70             | 4 63   |
| Tompora turo, | Mov   | c. Mi    | 47 | 47  | 47  | 47 | 48 | 48 | 49   | 20 | 51 | 49 | 8  | 48   | 46  | 47   | \$   | 46      | 47 | 46   | 46   | 48 | 49 | 21  | 48  | 49   | 49   | 20         | 48  | යි  | 20  | 52             | 1 48   |
| pora          |       | Max      |    |     | 54  |    | 54 |    | 55   | 8  | 55 | 54 | 51 | 2    | 20  | 51   | 53   | 54      | S  | 20   | 2    | 53 | 54 | 53  | 52  | 52   | 52   | 52         | 53  | 54  | 53  | 533            |        |
| Ton           | Apre  | Min      | 42 | 40  | 41  | 42 | 45 | 44 | 44   | 43 | 4  | 42 | 45 | 43   | 43  | 44   | 47   | 48      | 47 | 46   | 46   |    | 44 |     |     |      |      | 43         | 46  | 47  | 47  | 47             | 44.    |
|               | A     | Max      | 47 | 45  | 46  | 47 | 43 | 48 | 46   | 46 | 45 | 9  | 48 | 48   | 48  | 90   | 25   | 25      | 27 | 52   | 52   | 25 | ය  | 8   | 51  | 20   | 49   | R          | 61  | 52  | 53  | 54             | 49.3   |
|               |       | Min      | 40 | 39  | 40  | 39 | 38 | 39 | 40   | 42 | 42 | 43 | 44 | 45   | 44  | 44   | 43   | 37      | 36 | 38   | 40   | 39 | 38 | 38  | 88  | 41   | 39   | 39         | 42  | 43  | 43  | या था<br>या था | 40.7   |
|               | Mar   | Max      | 43 | 42  | 43  | 43 | 42 | 42 | 43   | 44 | 47 | 47 | 48 | 47   | 48  | 45   | 45   | 43      | 39 | 43   | 41   | 40 | 45 | 44  | 44  | 4    | 53   | 4H<br>• 63 | 47  | 9   | 8   | 48             | 44.3   |
|               |       |          |    | -   |     | 2  | -  | -  | 23   | -  | 42 | -  | -  |      | -   | _    |      | 40      |    |      |      |    |    |     | _   |      | _    | _          | 0   | 6   |     |                | 40.6   |
|               | Fob.  | x. Min   |    | _   | 4   | 83 | 4  |    |      |    |    |    |    |      |     |      |      |         |    |      |      |    |    |     |     |      |      | 23         |     | 23  |     |                | 3.2 4  |
|               |       | Max      |    | 4   | 41  | 4  | 4  | 4  | 4    | 41 | 41 | 41 | 4, | 41   | 41  | 4    | 4    | 4       | 41 | 4    | 41   | 41 | 4, | 41  | 4   | 4    | 4,   | 4          | 41  | 41  |     |                | 7 4    |
|               | Jan   | Min      | 39 |     |     |    | 40 |    |      |    | 4  |    |    |      |     |      |      | 40      |    | ·    |      |    |    |     |     |      |      |            | 36  | 35  | 37  | 39             | 38     |
|               | ,     | M        | 40 | 40  | 40  | 40 | 41 | 41 | 44   | 43 | 43 | 44 | 42 | 43   | 45  | 45   | 44   | 42      | 40 | 4    | 40   | 39 | 37 | 37  | 37  | 37   | 38   | 40         | 40  | 40  | 42  | 41             | 41     |
|               |       | Date     | Н  | 2   | 87) | ঝ  | S  | 9  | 7    | 00 |    | 10 | 1: | 27   | 13  | \$ F | 15   | 16      | 17 | 80 0 | 19   | 20 | 12 | 2 6 | 500 | 4, T | 000  | 0 2        | 200 | 200 | 7 0 | 31             | A      |

TABLE

| Mar.   Mar.   May   Juno   July   J  | Fightham   Max.   Min.   Min   | Nat.   Max.   May.      | Dog   | 0            |    |    |      | <del>Photo si</del> te |     |       |    | <br> |    | •  |    |    |    |    |    |    |    |      |    |    |    |     |    | -  |    |    |    |      |
|---|--|--|-------|--------------|----|----|------|------------------------|-----|-------|----|------|----|----|----|----|----|----|----|----|----|------|----|----|----|-----|----|----|----|----|----|------|
| Mar.   Mar.   Min.   Max.   Min.   Max.   Min.   Max.   Min.   Max.   Min.   Max.   Min.   Max.   Min.   | Feb.   Max.   Max.   Min.  | Pob.   Mar.   May.      | NOW   |              |    |    |      |                        |     | -40-0 |    |      |    |    |    |    |    |    |    |    |    |      | _  |    |    |     |    |    |    |    |    |      |
| Max.   Abr.   May.   Min.   Max.   Min.   Min.   Max.   Min.   Max.   Min.   Max.   Min.   | Feb.   Mar.   Aur.   Aur.   May   Jimo   July   Aug.   Jimo   J   | Column   | Oct   |              |    |    |      |                        |     |       |    |      |    |    |    |    |    |    |    |    |    |      |    |    |    |     |    |    |    |    |    |      |
| Mar.   Mar.   Mar.   May   Juno   July   Mar.   Min.   Mar.   M  | Fob.   Mar.   Abr.   May   Juno   July   J   | Fob.   Mar.   Mar.   May.   May.   Min.   Max.   Min.   Min.   Max.   Min.      | Sont. |              |    |    |      |                        |     |       |    |      |    |    |    |    |    |    |    |    |    |      |    |    |    |     |    |    |    |    |    |      |
| Mor.   Mor.   Mov.   Mov.   Juno   July   | Fob.   Max.   May.  | 100 between the control of t                        | 1     |              | 4  |    |      |                        |     |       |    |      | 1  | 1  | 1  | 1  | ı  | 1  | 1  | 1  | 1  | 1    | ı  | 1  | 1  | 1 1 | •  | 1  |    | 1  | 1  |      |
| Mar.         Apr.         Max.         Min.         Max.         Min.         Max.         Min.         Juno.         Juno. </td <td>  Fob.   Mar.   Mar.   Min.   Max.   Min.   Min.  </td> <td>Graph         Fob.         Mor.         Apr.         Mor.         Juno         <t< td=""><td>July</td><td>Min</td><td>61</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>63</td><td>65</td><td>65</td><td>65</td><td>65</td><td>61</td><td>63</td><td>64</td><td>65</td><td>- 49</td><td>69</td><td>69</td><td>12</td><td>202</td><td>67</td><td>64</td><td>63</td><td>99</td><td>99</td><td>00</td></t<></td> | Fob.   Mar.   Mar.   Min.   Max.   Min.  | Graph         Fob.         Mor.         Apr.         Mor.         Juno         Juno <t< td=""><td>July</td><td>Min</td><td>61</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>63</td><td>65</td><td>65</td><td>65</td><td>65</td><td>61</td><td>63</td><td>64</td><td>65</td><td>- 49</td><td>69</td><td>69</td><td>12</td><td>202</td><td>67</td><td>64</td><td>63</td><td>99</td><td>99</td><td>00</td></t<>   | July  | Min          | 61 |    |      |                        |     |       |    |      | 63 | 65 | 65 | 65 | 65 | 61 | 63 | 64 | 65 | - 49 | 69 | 69 | 12 | 202 | 67 | 64 | 63 | 99 | 99 | 00   |
| Mar.         Abr.         Max.         Min.         Min. <th< td=""><td>Fob.         Mar.         Apr.         Max.         Min.         <th< td=""><td>Line         Hop.         Mar.         Apr.         Apr.         May.         Min.         <th< td=""><td></td><td>IN.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></td></th<></td></th<>  | Fob.         Mar.         Apr.         Max.         Min.         Min. <th< td=""><td>Line         Hop.         Mar.         Apr.         Apr.         May.         Min.         <th< td=""><td></td><td>IN.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></td></th<> | Line         Hop.         Mar.         Apr.         Apr.         May.         Min.         Min. <th< td=""><td></td><td>IN.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |       | IN.          |    |    |      |                        |     |       |    |      |    |    |    |    |    |    |    |    |    |      |    |    |    |     |    |    |    |    |    |      |
| 45 45 45 50 44 45 40 40 40 40 40 40 40 40 40 40 40 40 40  | Fob. Mar. Max. Max. Apr. Max. Max. Max. Max. Min. Min. Min. Min. Min. Min. Min. Min  | John         Foh         Mar.         Mar.         Apr.           43         -         -         43         41         47         44           43         -         -         -         43         41         47         44           43         -         -         -         -         43         41         47         46           45         -         -         -         -         43         46         40         46         47         44         40         46         47         44         40         46         47         44         46         47         47         44         47         47         44         40         46         47         47         44         47         47         44         47         47         47         44         47         47         44         47         47         47         44         47         47         44         47         48         48         44         40         50         44         40         50         44         40         50         44         40         50         44         40         50         44         40         50  | ╬     | m. Max       | 4  |    |      |                        |     |       |    |      |    |    |    |    |    |    |    |    |    |      |    |    |    |     |    |    |    |    |    |      |
| 45 45 45 50 44 45 40 40 40 40 40 40 40 40 40 40 40 40 40  | Fob. Mar. Max. Max. Apr. Max. Max. Max. Max. Min. Min. Min. Min. Min. Min. Min. Min  | John         Foh         Mar.         Mar.         Apr.           43         -         -         43         41         47         44           43         -         -         -         43         41         47         44           43         -         -         -         -         43         41         47         46           45         -         -         -         -         43         46         40         46         47         44         40         46         47         44         40         46         47         44         46         47         47         44         47         47         44         40         46         47         47         44         47         47         44         47         47         47         44         47         47         44         47         47         47         44         47         47         44         47         48         48         44         40         50         44         40         50         44         40         50         44         40         50         44         40         50         44         40         50  | May   | ,            |    |    |      |                        |     |       |    |      |    |    |    |    |    |    |    |    |    |      |    |    |    |     |    |    |    |    |    |      |
| Mar. Mar. Mar. Mar. Mar. Mar. Mar. Mar.   | Fob. Mar. Win. Lax. Lax. Lax. Lax. Lax. Lax. Lax. Lax  | Von. Feb. Mar. Win. 19x. W | Apr   |              |    |    | o co |                        |     |       |    |      |    |    | •  |    |    |    |    | 4  |    |      |    |    |    |     |    |    |    |    |    |      |
| 10 0 4 4 4 10 0 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8   | Fob.  Fob.  Fob.  1  | Action   Fob.    | far.  | ٠.<br>د<br>د |    |    |      |                        |     |       |    |      |    | _  |    |    |    |    |    |    |    |      |    |    |    |     | _  | _  |    |    |    |      |
|   | 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 2 - 2  | 100 John (100 Jo | -     | מ: "יע       | V  | 43 | 42   | 4 4 5                  | 444 | 46    | 45 | -    |    | 4  |    |    |    |    |    |    |    |      |    |    |    |     |    |    |    |    | 44 | 11 4 |

Daily Haximum and Minimum Water Temperatures, Trinity River at Junction City
Thermograph located one-half mile south of Junction City, Trinity County, California
Sec. 12, T. 33 N., R. 11 W., Mt. Diablo B. & M.

Tomporature, in degrees Fahronhoit, 1945 and 1946

PABLE 35

Daily Maximum and Minimum Water Temperatures, Anderson-Cottonwood Irrigation District Canal two miles northwest of Anderson, Shasta County, California Sec. 16, T. 30 N., R. 4 W., Mt. Diablo B. & M.

|              | Dog  |           |      |      |            |       |      |      |      |    |      |      |   |      |       |      |    |       |          |      |       |    |      |      |        |       |       |       |       |    |    |       |      |          |
|--------------|------|-----------|------|------|------------|-------|------|------|------|----|------|------|---|------|-------|------|----|-------|----------|------|-------|----|------|------|--------|-------|-------|-------|-------|----|----|-------|------|----------|
|              | Mov  |           |      |      |            |       |      |      |      |    |      |      |   |      |       |      |    |       |          |      |       |    |      |      |        |       |       |       |       |    |    |       |      |          |
|              | o to | x. Min.   | 54   | 55   | 54         | 53    | 53   | 54   | 54   | 54 | 54   | 54   | 54                                      | 54   | 55    | 55   | 54 | 54    | 54       | 53   | 53    | 54 | 1    | ı    | ı      | ı     |       |       | 1     | ١  | ,  |       |      | 8 53,9   |
|              | 0    | Max       |      | 55   |            |       |      |      | 88   | _  | 56   | 56   | 56                                      |      | _     | 56   |    | 56    |          | 56   | _     | 56 | 56   | 1    | 1      | 1     | 1     | 1     | 1     | 1  | 1  | 1     |      | 6 55.8   |
|              | no t | ix. Min.  | 53   | 53   |            |       |      |      |      |    |      |      |   |      |       |      |    |       | 54       |      |       |    |      |      |        | 52    |       |       | 53    |    |    | 54    |      | 9 53.    |
|              |      | M         | L    | 5 56 |            | 3 56  |      |      | 3 56 |    | _    | 2 56 | 3 56                                    | 3 56 | 3 56  | 3 56 |    | 3 56  |          | 3 56 |       |    |      |      |        |       | 5 56  |       |       | _  | 57 | _     |      | 7 55     |
| 1948         | Aue  | Max. Min. |      | _    |            | 55 53 |      | 55 5 |      |    |      |      | 55 5                                    | 55 5 | 56 53 | 55 5 |    | 55 53 |          |      | 5 53  |    | 5 53 |      |        | 55 53 |       |       |       |    |    |       | 5 58 | .1 52.7  |
|              |      |           |      | 52 5 |            |       | 51 5 |      | 52 5 |    | 52 5 |      | 53 5                                    | 53 5 | 52 5  |      |    |       |          |      | 53 55 |    |      | 52 5 |        |       | 52 56 | 52 56 | 52 56 | _  | _  | 53 55 | -    | .3 55.1  |
| Pahronhoit,  | July | Max. Min. | 55 5 | 55 5 |            |       |      |      | 55 5 |    |      |      | 56 5                                    |      |       |      |    |       |          | 55 5 |       |    |      |      |        |       |       |       |       |    |    | 55 5  | ı    | 54.9 52. |
| _            |      | JA:       | 50   | 15   | 19         | 20    | 51   | 51   | 52   | 51 | 53   | 52   | 52                                      | 52   | 52    | 52   | 52 | 21    | <u>ੂ</u> | 52   | 21    | 52 | 53   | 52   | 다<br>당 | 52    | 52    | 52    | 52    | 52 | 29 | 25    |      | 51 e 5   |
| dogroos      | Jun  | Max. Min. |      | 55   |            |       |      |      |      |    |      |      | 55                                      |      |       |      |    |       |          |      |       |    |      |      | 25     |       | _     | 55    |       |    |    | 57    |      | 54.6     |
| ro, in       | -    | x. Min. W |      |      | 1          | 1     | ,    |      | ,    | ,  | 26   | 57   | 1                                       | 1    | ,     | 54   | 55 | 26    | 55       | 54   | 54    | 54 | 20   | 20   | 20     | 20    | 20    | 51    | 51    | 49 | 20 | 20    | 51   | 52.3     |
| Tomporaturo, | Mo   | Max       | 1    | í    | ı          | 1     | 1    | ı    | ı    | ı  | 09   | 64   | 1                                       | ı    | 58    | 29   | 09 | 9     | 21       | 8    | 22    | t  | 52   | 53   | 53     | 23    | 53    | 52    | 52    | 27 | 53 | 52    | 52   | 55.1     |
| Tomi         | Anr  |           |      |      |            |       |      |      |      |    |      |      |   |      |       |      |    |       |          |      |       |    |      |      |        |       |       |       |       |    |    |       |      |          |
|              | Mar  |           |      |      |            |       |      |      |      |    |      |      |   |      |       |      |    |       |          |      |       |    |      |      |        |       |       |       |       |    |    |       |      |          |
|              | Fob. |           |      |      |            |       |      |      |      |    |      |      |   |      |       |      |    |       |          |      |       |    |      |      |        |       |       |       |       |    |    |       |      |          |
|              | Jan. |           |      |      |            | -     |      |      |      |    |      |      |   |      |       |      |    |       |          |      |       |    |      |      |        |       |       |       |       |    |    |       |      |          |
|              |      | Pate      | ~    | N    | <b>3</b> 0 | *     | 9    | 9    | -    | 0  | 0    | 2    | ======================================= | 75   | 13    | 74   | 15 | 36    | 17       | 18   | 19    | 2  | ส    | 22   | 200    | 57    | 22    | 92    | 22    | 88 | 62 | 30    | 20   | Av.      |

Daily Maximum and Minimum Water Temperatures, Anderson-Cottonwood Irrigation District Canal west of Cottonwood Tehama County, California

TABLE 35

Daily Maximum and Minimum Water Temperatures, Anderson-Cottonwood Irrigation District Canal west of Cottonwood Informedia Informed Informed Informed Sec. 16, T. 29 N., R. 4 W., Mt. Diablo B. & M.

|              | Dog   |      |    |    |            |    |          |      |    |      |     |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|--------------|-------|------|----|----|------------|----|----------|------|----|------|-----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|              | Nov   |      |    |    |            |    |          |      |    |      |     |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|              | Oct.  | Min. | 56 | 57 | 57         | 57 | 54       | 55   | 56 | 57   | 57  | 57 | 57 | 57 | 56 | 56 | 56 | 56 | 56  | 56 | 55 | 25 | 54 | 1  | ı  | ,  | 1  | ı  | ı  | 1  | 1  | ı  | ı  | 56.0   |
|              | ď     | Max  | 09 | 59 | 59         | 58 | 58       | 59   | 9  | 19   | 09  | 9  | 09 | 61 | 58 | 58 | 59 | 59 | 59  | 59 | 50 | 57 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | ı  | ı  | 59.1   |
|              | D.t.  | Min  | 58 | 58 | 59         | 09 | 9        | 9    | 19 | 60   | 9   | 9  | 09 | 09 | 59 | 60 | 58 | 56 | 55  | 52 | 57 | 57 | 57 | 57 | 52 | 55 | 54 | 54 | 54 | 56 | 99 | 55 |    | 57.5   |
|              | Son   | H    |    | 64 |            |    |          |      | 99 | 65   | 99  | 99 | 65 | 65 | 65 | 64 | 61 | 59 | 52  | 59 | 61 | 19 | 9  | 59 | 59 | 58 | 56 | 58 | 59 | 90 | 9  | 59 |    | 61.5   |
| 1948         | Aug   | Min  | 62 | 63 | 62         | 61 | 61       | 61   | 09 | 09   | 09  | 09 | 59 | 59 | 9  | 19 | 19 | 9  | 909 | 61 | 61 | 61 | 62 | 57 | 26 | 58 | 58 | 59 | 59 | 58 | 28 | 58 | 59 | 59.8   |
|              |       | Max  | 69 | 69 | 67         | 67 | 67       | 99   | 64 | 64   | 64  | 64 | 64 | 65 | 99 | 99 | 68 | 65 | 65  | 65 | 99 | 99 | 64 | 61 | 19 | 62 | 63 | 63 | 63 | 62 | 63 | 63 | 63 | 5 64.6 |
| Fahronhoit,  | July  | ×    | 9  | 63 | 9          | 29 | 55       | 54   | 57 | 83   | 5.6 | 19 | 63 | 62 | 63 | 64 | 65 | 65 | 65  | 65 | 64 | 64 | 62 | 62 | 62 | 61 | 61 | 61 | 19 | 09 | 62 | 63 | 63 | 0 61.5 |
| - 6-         | 7     | Max  | 67 | 69 | 65         | 63 | 9        | 59   | 63 | 64   | 64  | 67 | 68 | 68 | 69 | 77 | 72 | 77 | 72  | 73 | 69 | 69 | 67 | 67 | 67 | 67 | 99 | 65 | 99 | 99 | 69 | 68 | 68 | 8 67.0 |
| dog roos     | Out o | Min  |    | 63 |            |    |          |      |    |      |     |    |    |    |    |    | 57 |    |     |    | 59 |    |    | 59 |    | 09 | 63 | 63 | 64 | 64 | 63 | 63 |    | 3 59.8 |
| in do        |       | 7    | 78 | 73 | 63         | 58 | 58       | 63   | 72 | 78   | 69  | 63 | 63 | 63 | 63 | 63 | 62 | 99 | 62  | 62 | 65 | 99 | 65 | 65 | 99 | 68 | 70 | 70 | 70 | 20 | 68 | 19 |    | 7 66.  |
| ome          | MOV   | Min  | 1  | 1  | 1          | 1  | 1        | 1    | 1  | 1    | 1   | 1  | 1  | 1  | ŧ  | 54 | 54 | 58 | 52  | 52 | 20 | 20 | 52 | 55 | 58 | 59 | 9  | 09 | 52 | 53 | 52 | 52 | 56 | 0 54.  |
| Tomporaturo, |       | Max  | 1  | 1  | ;          | 1  | 1        | 1    | 1  | 1    | 1   | 1  | 1  | 1  | 1  | 9  | 9  | 63 | 09  | 55 | 52 | 55 | 59 | 62 | 65 | 64 | 65 | 64 | 58 | 57 | 56 | 59 | 99 | 60.    |
|              | Apr   |      |    |    |            |    |          |      |    |      |     |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|              | Mar.  |      |    |    |            |    |          |      |    |      |     |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|              | rope  |      | •  |    |            |    |          |      |    |      |     |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|              | Jane  |      |    |    |            |    |          |      |    |      |     |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|              | 1     | S S  | ~  | cs | <b>8</b> 7 | 41 | <u>م</u> | 80 ( | 7  | 80 ( | n ا | 10 |    | 75 | 13 | 14 | 15 | 16 | 17  | 18 | 19 | 02 | 27 | 22 | 23 | 57 | 22 | 56 | 27 | 28 | 53 | 30 | 31 | γΔ.    |

Hand thermometer readings taken one mile upstream from mouth of Battle Creek, Tehama County, California Sec. 11, T. 29 N., R; 3 W., Mt. Diablo B. & M.

|             |       | A) [     | 48 | 47   | 8  | 9          | 46         | 7   | 48 | 51 | 2          | 63  | 48         | 9               | 47  | 7    | 48     | 50  | 49 | 46 | 84  | 48 | 46 | <b>~</b> 1 | S.         | 9        | 4   | 4           | 9   | 9          | 48  | 50 |    | 7.5   |
|-------------|-------|----------|----|------|----|------------|------------|-----|----|----|------------|-----|------------|-----------------|-----|------|--------|-----|----|----|-----|----|----|------------|------------|----------|-----|-------------|-----|------------|-----|----|----|-------|
|             | Dec.  | Pir 8    |    |      |    |            |            | 4   |    |    |            |     |            |                 |     | 4,   |        |     |    |    |     |    |    | 4          | 4          | <b>*</b> | 41  |             | ঝা  | Ť          |     |    | 2  | .2 4  |
|             |       | 2        | 50 | 50   | 20 | 50         | 48         | 20  | 50 | 50 | 55         | 54  | 49         | 48              | 20  | 48   | 50     | 20  | 20 | 50 | 84  | 50 | 46 | 46         | 47         | 48       | 48  | 47          | 46  | 47         | 40  | 51 | 51 | 2 40  |
|             | Nov.  | 8 AN     | 51 | 52   | 20 | 20         | <b>4</b> 1 | 48  | 20 | 48 | <b>A</b> , | 49  | 49         | 20              | 49  | 47   | 47     | 47  | 46 | 46 | 46  | 48 | 48 | <b>₹</b>   | 49         | 48       | 48  | 20          | 47  | 46         | 47  | 46 |    | 9 48. |
|             | II    | 5 PM     |    |      | 54 |            | 54         |     | 54 | 53 | 53         | 53  | 53         | 52              | 20  | 52   | 23     | 20  | 50 | 20 | 52  | 20 | 20 | 52         | 51         | 50       | 54  | 52          | 20  | A          | 20  | 20 |    | 51.9  |
|             |       | 8 AM     | 58 | 55   | 54 |            | 55         | 54  | 53 | 53 | 55         | 55  | 26         | 56              | 57  | 56   | 56     | 55  | 54 | 54 | 53  | 54 | 55 | 55         | 55         | 55       | 49  | 43          | 51  | 53         | 54  | 54 | 54 | 54.2  |
|             | Oct   | H        | 62 | 58   | 58 | 59         | 56         | 58  | 57 | 58 | 58         | 09  | 09         | 61              | 09  | 09   | 09     | 58  | 57 | 57 | 57  | 59 | 59 | 58         | 59         | 55       | 52  | 52          | 56  | 28         | 58  | 26 | 55 | 57.8  |
|             | t.    | ANT 5    | 59 | 29   | 59 | 30         | 09         | 59  | 58 | 58 | 58         | 09  | 63         | 31              | 57  | 56   | 57     | 57  | 58 | 57 | 61  | 33 | 61 | 64         | 61         | 25       | 61  | 60          | 8   |            | 89  | 53 |    | 59.5  |
|             | Sept. | PM 8     |    |      | 99 |            |            |     | 2  | ນ  | . 9        |     | 64 (       |                 |     |      | wet.   |     |    |    |     |    |    |            |            |          |     |             |     | 62 &       | 33  | 23 |    | 4.1 8 |
|             |       | AM 5     | -  |      | -  |            | _          |     | 9  | 9  | 9          |     | _          | _               | -   |      | 9      | _   | _  | _  | 99  |    | _  |            | _          | 99       | 61  |             |     | _          | _   |    | -  | 6     |
| 1939        | Aug   | ထ        |    |      | 65 |            |            | 65  | 99 |    |            |     | 64         |                 |     |      |        | 63  | 9  | 9  | 64  | 9  | 09 | 64         | 64         | 63       | 62  | 09          | 59  | 58         | 59  | 9  | 59 | .1 63 |
|             |       | 5 PM     | 74 | 73   | 72 | 72         | 72         | 72  | 73 | 72 | 72         | 7   | 71         | 72              | 72  | 72   | 72     | 7.1 | 72 | 72 | 70  | 63 | 70 | 70         | 20         | 170      | 70  | 68          | 65  | 62         | 65  | 99 | 99 | 70    |
| Fahronheit, | July  | 8 AL     | 63 | 62   | 63 | 62         | 62         | 19  | 64 | 63 | 64         | 99  | 64         | 64              | 64  | 63   |        | 63  | 64 | 64 | 63  | 63 | 64 | <b>F</b> 9 | 65         | 65       | 99  | 99          | 99  | 67         | 67  | 67 | 99 | 64.1  |
| -           | J     | 5 PM     | 68 | 67   | 67 | 68         | 67         | 68  | 70 | 7  | 7          | 7.3 | 77         | 72              | 7.1 | 7.1  | 72     | 11  | 72 | 72 | 72  | 72 | 72 | 72         | 72         | 72       | 72  | 73          | 73  | 74         | 73  | 72 | 72 | 71.0  |
| degrees     | Je l  | 8 AM     | 60 | 61   | 61 | 22         | 57         | 09  | 59 | 62 | 62         | 62  | 64         | 64              | 64  | 63   | 61     | 57  | 55 | 58 | 09  | 62 |    | 64         | 62         |          | 65  |             |     | 64         |     |    |    | 61.4  |
| in de       | June  | D,       | 99 | 99   | 65 | 63         | 63         | 64. | 99 | 67 | 70         | 20  | 70         | 70              | 70  | 99   | 09     | 09  | 62 | 64 | 99  | 88 | 70 | 17         | 69         | 20       | 17  | 20          | 7.1 | 72         | 72  | 70 |    | 4     |
| -           |       | AM 5     | 99 | 57   | 56 | 57         | 58         | 57  | 58 | 09 | _          |     | _          |                 |     | 59   |        | -   | -  |    | -   |    | 54 | -          |            | -        |     | 0           |     | 23         | 3   | _  | 61 | .5 67 |
| perature    | PIRV  | <b>H</b> | 23 | 23   | 63 | 33         | 33         | 83  |    | 5  |            |     |            |                 | 9   |      |        |     | 9  |    |     |    |    |            |            | 3        |     |             | 8 6 | 8          | 9 0 |    | 9  | 4 53  |
| Tempe       |       | AM 5     | 9  | 9    | 9  | 9          | 9          | 9   | 9  | 9  | 9          | 9   | 9          | 9               | 9   | 9    | φ      | 9   | 9  | 9  | 61  |    |    | _          | တ          | 9        | 9   | 9           | 9   | 9          | _   | 9  | 9  | 9 63  |
| Ţ           | Apr.  | ω        |    |      |    | 52         |            |     |    |    |            |     |            |                 |     |      |        |     |    |    |     |    |    |            | 57         | 56       | 56  | 56          | 56  | 22         | 28  | 56 |    | 7 55. |
|             |       | 5 1      | 59 | 61   | 62 | 9          | 9          | 09  | 62 | 9  | 59         | 59  | 09         | 59              | 53  | 58   | 09     | 61  | 19 | 63 | 65  | 64 | 63 | 60         | 9          | 09       | 61  | 61          | 62  | 63         | 62  | 62 |    | 90    |
|             | are   | 8 ALF    | 43 | 47   | 47 | 46         | 45         | 40  | 46 | 46 | 46         | 46  | 64         | <b>4</b> 9      | 49  | 50   | ₩<br>₩ | 52  | 52 | 53 | 54  | 52 | 54 | 54         | 54         | 56       | 54  | 54          | 20  | 20         | 25  | 20 | 52 | 50.0  |
|             | Ma    | 5 PM     | 48 | A CO | 20 | 20         | 48         | 2   | 48 | 47 | 47         | 52  | 49         | 22              | 52  | 52   | 54     | 24  | 28 | 28 | 69  | 28 | 28 | 58         | 58         | 09       | 59  | 54          | 55  | 55         | 22  | 22 | 58 | 53.7  |
|             | 2.    | 8 AM     | 42 | 42   | 42 | 43         | 44         | 44  | 44 | 42 | 77         | 42  | 42         | 47              | 44  | A Si | 45     | 46  | 46 | 47 | 848 | 45 | 44 | 45         | 46         | 46       | 45  | 44          |     | 45         |     |    |    | 4.3   |
|             | Feb   | 24       | 44 | 42   | 45 | 46         | 45         | 46  | 46 | 46 | <b>4</b>   | 91  | 45         | <b>Δ</b> ;      | 46  | 48   | 20     | 48  | 20 | 51 | 20  | 47 | 48 | 60         | 20         | 20       | 20  | <b>4</b> 88 | 48  | 48         |     |    |    | 7.3 4 |
|             |       | AM 5     | 91 | 91   | 48 | 83         | 48         | 46  | 44 | ক্ |            |     | 91         | 9               | 91  | 4    | 9      | 23  | 4  | 4  | 4   | 52 | 93 | 2          | V          | 7        | ₹.  | 9           |     | <b>4</b> ! |     |    | P. | .2 4  |
|             | Jan.  | PM 8     |    |      |    | 48         |            |     |    |    |            |     | 8 4        |                 |     |      |        |     | 6  |    |     |    |    |            |            |          | 6 4 |             | 8   |            | ₽r  | 4  |    | .9 45 |
|             |       | ည        | 41 | 41   | 2  | 4          | <b>₹</b> ¹ | 4,  | 41 | 41 | 41         | ব্য | <b>*</b> " | <b>4</b> ,<br>∞ | 46  | 47   | 48     | 44  | 46 | 46 | ক'  | ₹· | 4  | 47         | <b>2</b> 1 | হা'      | चं  | 46          | 48  | 41         | 4   | 46 | 4  | 46    |
|             |       | 40       | -  | c3   | 3  | <b>4</b> 1 | വ          | 9   | 7  | ထ  | O          | 10  | 11         | 12              | 13  | 14   | 15     | 16  | 17 | 18 | 19  | 20 | 21 | 22         | 23         | 24       | 25  | 56          | 27  | 28         | 83  | 30 | 31 | Av.   |

Daily Afternoon and Morning Water Temperatures, Battle Creek at Old Battle Creek Hatchery Hand thermometer readings taken one mile upstream from mouth of Battle Greek, Tehama County, California 11, T. 29N., R. 3W, Mt. Diablo B. & M. Sec

46.9 489 T-PE れるとれたとれたとれたとれたとれたけれたけれたとれたとれたとととととと 19.0 51.3 55.1 4PM SAM 59.3 Sopt 19 40 AUR in dogreos Fahronhoit. July Tomporaturo, May Apr. Mar Fob Jane 22450400011111 

Daily Afternoon and Morning Water Temperatures, Battle Creek at Old Battle Creek Hatchery
Hand thermometer readings taken one mile upstream from mouth of Battle Creek, Tehama County, California
Sec. 11, T. 29 N., R. 3 W. Mt. Diablo B. & M.
Temperature, in degree Fahronheit, 1941

|             |      | ¥.       | 146 | 弘          | 148      | 45         | 94       | 94 | 45 | 5,4  | 5        | 46  | 42   | 20 00             | 100 | × ×      | 5    | 20, | 94             | ± 8      | 45         | 200        | 2 = 1 | 1,1              | 净               | ₹    | 42       | 47  | 다   | 4        | され       | 46.   |   |
|-------------|------|----------|-----|------------|----------|------------|----------|----|----|------|----------|-----|------|-------------------|-----|----------|------|-----|----------------|----------|------------|------------|-------|------------------|-----------------|------|----------|---|---|----------|----------|-------|---|
|             | 4    | 4PM 8A   | 井   | 击          |          |            |          |    |    |      |          | 1,8 |      |                   |     | 20       |      |     |                |          |            | 24%        |       |                  | \- <del>1</del> | 4    | 142      | Image: Control of the | 5   | at       | 主主       | 7.5   |   |
|             | -    | 1        | -   |            | -        |            |          | -  | _  |      | _        | -   | -    |                   |     | -        |      |     | -              |          |            |            |       |                  | ~               | 7    |          | -1 .  | <u>ــــــــــــــــــــــــــــــــــــ</u> | -1. ~    | 7 77     | 77 7. | 1 |
|             | 44   | SA       | 52  | 52         | 54       | 25         | 75       | 75 | 古  | 27   | 71,      | 7 ( | 700  | <b>ر ادر</b><br>ا | 71  | 70       | 74   | 节,  | 123            | 48       | 150        | # 3        | 1     | 77               | 1               | 94   | 94       | 94  | 48  | 200      | 74       | 50    |   |
|             | Z    | 4PV      | 53  | 立          | 55       | 57         | 56       | 56 | 56 | 1    | 72       | (大  | 25   | 27.               | だが  | 56       | 37   | かった | 杰              | 50       | 748        | ± =        | T to  | 20 00            | 148             | 48   | 148      | 100   | 52  | 52       | 54       | 52.4  |   |
|             |      | A.       | 4   | 9          | 9        | 9          | オ        | 2  | S  | N    | -        | N   | -    | 12                | 2   | (        | 1 14 | 小ホ  | <del>-</del> - | 9        | <i>ن</i> . | <b>+</b> 1 | 2     | ا<br>د<br>د<br>د | 1 (1)           | 杰    | <b>#</b> | <b>=</b>  | 2   | 0,       | 10       | 3.2   |   |
|             | Oct  | N SA     |     |            |          |            |          |    |    |      |          |     |      |                   |     |          |      |     |                |          |            |            |       |                  |                 |      |          | S   | 5   | וטו      | ひに       | 8 5   |   |
|             |      | 四        | 58  | 58         | 8        | 58         | 156      | 56 | 56 | 156  | 57       | 26  | 55   | 56                | かが  | 27.      | 77.  | 56  | 58             | 58       | 58         | 56         | りよ    | 7,0              | 56              | 56   | 杰        | 24  | 55  | 25       | 52       | 55    |   |
|             | +,   | 8AM      | ,   | 1          | 1        | 1          | ı        | ł  | Į. | ı    | 58       | 50  | 78   | 57                | 26  | 200      | 200  | 56  | 58             | 26       | 52         | 200        | 7 K   | 77               | 55              | 25   | 75       | 26  | 54  | 200      | 26       | 55.6  |   |
|             | Son  | 4PM      |     |            |          |            |          |    |    |      | <b>≠</b> | 7   | \ cu | l ed              | N   | \ \      | . N  | ิณ  | a              | 6        | 0          | or co      | മെ    | \ o              | , to            | 100  | 0        | 0   | 03  | o 03     | 7        | 0.1   |   |
|             |      | -        | 1   | 1          |          | -          | 1        | 1  | -  | 1    | 79       | 9   | 9    | 9                 | 9   | 2        | 2    | 0   | 9              | 5        | 0          | 200        | מֿע   | 7 (              | 710             | , IO | 9        | 9   | 10  | 58       | ٥        | 9     | + |
| 돠           | ug   | 8AM      | 1   | 1          | t        | 1          | i        | ŀ  | 3  | 1    | 1        | ŀ   | - 1  | å                 | 1   | l        | 1    | ı   | ı              | ł        | 1          | ı          | 1     | l į              | ı               | 1    | 1        | I   | I   | ì        | l i      | T     | - |
| 19 41       | A    | 4PN 84   | 1   | 1          | t        | 1          | 1        | 1  | 1  | 1    | 1        | 1   | ı    | ı                 | 1   | 1        | ı    | 1   | 1              | 1        | ı          | i          | 1     | 1 1              | 1               | ı    | t        | 1   | 1   | 1        | 1 1      | 1     |   |
| oit,        |      | 8AM      |     | <u>-</u> + |          |            | 9        | 9  |    |      |          | _   |      | -                 | -   |          | _    |     |                |          |            |            | -     | _                |                 | -    |          |   |   |          |          | 1-1   |   |
| Fahronhoi   | ulv  | 80       | 9   | ₹          | B        | B          | 9        | 9  | 1  |      | 1        | ı   | ı    | - 1               | 1   | 1        | 1    | 1   | 1              | I        | ì          | I          | 1 :   | 1 1              | - 1             | 1    | 1        | £   | 1   | 1        | 1 1      | 79 7  |   |
| Fah         | ר    | Mah      | 2   | 2          | 2        | 2          | 72       | 72 | 1  | ı    | ı        | ı   | 1    | 1                 | ı   | 1        | 8    | 1   | t              | 1        | 1          | ı          | 1 1   | 1                | ı               | 1    | 1        | ı   | 1   | 1        | 1 1      | 70.   |   |
| 000         | 0    | SAM      | 56  | 58         | 58       | 58         | 9        | 58 | 21 | 22   | 28       | 58  | S    | 20                | 73  | 63       | \cd  | 19  | 58             | 25       | 001        | 200        |       | 00 00            | 100             | 10   | 00       | 8   | 22  | 85       | N C      | 59.6  |   |
| degroo      | Jur  | 4PM 81   |     |            |          |            |          |    |    |      |          |     |      |                   |     |          |      |     |                |          |            |            |       |                  |                 |      |          |   |   |          |          | 00    |   |
| ln          | -    |          | 19  | क          | 6        | Ö          | 9        | 9  | 9  | 9    | 0        | 9   | 39   | 39                | 39  | 9        | 9    | 9   | 9              | 9        | 30         | 20         | 8 6   | र त              | 0               | 6    | 6        | 9   | 99  | 89       | õ        | ty9 9 |   |
| ro,         | ٨    | 8AM      | 58  | 26         | 杰        | 53         | 25       | 26 | 26 | 26   | 26       | 58  | 60   | 58                | 56  | 26       | 法    | 56  | 57             | 52       | 52         | ひら         | 200   | 200              | 62              | 19   | 9        | 56  | 26  | 27       | 26       | 3 .   |   |
| Temporaturo | Mo   | 4PM 8    | 22  | 26         | 9        | 5          | 60       | Q  | 0  | ત્યુ | at.      | 去   | ટ્ય  | 9                 | .0  | 2        | N    | 62  | 19             | 80       | 0 1        | ひん         | 0 0   | 03 0             | 20              | 5    | 62       | <del></del>   | 00  | 80 0     | 62<br>62 | 4.19  |   |
| Odui        | -    |          | -   | _          |          |            |          | _  | _  | _    | _        |     | _    | _                 | _   | _        |      | _   | -              |          | _          | _          | _     |                  | _               |      | _        | -   | -   |          |          | 1.    |   |
| Ĭ           | Dr   | 8A       | 51  | 3          | <b>型</b> | ᅜ          | 148      | 52 | 52 | 20   | 53       | 18  | 94   | 50                | , I | 52       | 2,0  | 52  | 84             | 148      | 148        | 7 6        | たれ    | '군               | 57              | 57   | 56       | 志   | 27  |          | 7        | 9 51  |   |
|             | Apr  | PM       |     |            |          |            |          |    |    |      |          |     |      |                   |     |          |      |     |                |          |            |            |       |                  |                 |      |          |   |   | 27       |          | 56.9  |   |
|             |      | H W      | 80  | 80         | 9        | Ģ          | 80       | -  | 6  | 80   | 0        | 0   | 0    | 0                 | S   | -        | 80   | 0   |                | N .      |            | 0 0        | 0 0   | 0                | 6               | 80   | 0 1      | 7   | N I   | N C      | 50       | 49.7  |   |
|             | ਰ    | SAM      |     |            |          |            |          |    |    |      |          |     |      |                   |     |          |      |     |                |          |            |            |       |                  |                 |      |          |   |   |          |          | 5     |   |
|             |      | HPM      | 50  | 148        | 94       | 20         | 52       | 53 | 53 | 古    | 56       | 56  | 56   | 56                | 56  | 57       | 志    | 击   | 26             | 56       | 57         | X 전        | 36    | も/               | 53              | 立    | 54       | 22  | 53  | 74       | 522      | 53    |   |
|             |      | AM       | 64  | 747        | 94       | 94         | 148      | 64 | 74 | 64   | 50       | 52  | 50   | 47                | 14  | 746      | 118  | 50  | 64             | L+1      | - t        | 20 0       | 27    | 53               | 9               | 84.  | 200      | 20  | 21  |          |          | 49.0  |   |
|             | Fob. | PM 8     |     |            |          |            |          |    |    |      |          |     |      |                   |     |          |      |     |                |          |            |            |       |                  |                 |      |          |   |   |          |          | S.    |   |
| ļ           |      | <b>=</b> | 7   | <b></b>    | <b>計</b> | <b>≠</b> . | <b></b>  | 10 | 2  | 2    | 2        | 2   | #    | #                 | #   | <u>ہ</u> | 5    | 10  | 5              | <b>⇒</b> | # L        | טונ        | ب بدر | 710              | 2               | 5    | 20       | 2   | 5   |          |          | 1 50  |   |
|             | ne   | 8AM      | 43  | 745        | 43       | ∄.         | 45       | 3  | 94 | 747  | 148      | 147 | 148  | 177               | 49  | 147      | 147  | 74  | 47             | 148      | 1 4        | 107        | 158   | 148              | 148             | 20   | 450      | 40  | 40,   | <b>-</b> | 47       | 46.   |   |
|             | - 1  |          | 94  | 45         | 43       | <b>‡</b> : | <b>#</b> | 94 | 94 | 50   | 64       | 50  | 20   | 49                | 50  | 149      | 147  | 148 | 24             | 0,1      | × ×        | スペ         | 64    | 18               | 64              | 50   | 51       | 2 1   | 20 0  | 200      | 15       | 43.0  |   |
| -           |      | to 5     |     |            | _        | -          |          |    |    |      | -        |     |      | _                 |     |          |      |     |                |          |            |            | _     |                  |                 |      |          |   |   |          |          |       |   |
|             | ,    | Pat      | -   | N          | 87       | ঝ          | ນ        | မ  | 7  | 8    | 6        | 10  | 11   | 12                | 13  | 14       | 15   | 16  | 17             | 18       | 13         | 2 5        | 22    | 23               | 24              | 22   | 26       | 130   | 200   | 3 6      | 31       | Av    |   |

Old Battle Creek Hatchery Creek, Tehama County, California X Battle Creek at mouth of Battle 생 M Diablo 芝 from Temperatures, 3 upstream B. N 53 Water mile E 11. taken one Morning Sec. Daily Afternoon and thermometer readings Hand

Poce \$ 47.2 48 12000 \$ 80 Nov 9 PM \$0000 \$000 \$000 2522 50. 53.6 Oct. 00 6 PM 56. 58.3 Sopt. 03 8000000 52. 63.1 122 Aug. 13 67.9 PM تد 64.2 Fahronhoi July PM 8 69 dogroos 59. June PM 65.1 1n 3 Tomporaturo, Now W E ∞. 57 2 50. Apr 100 53.9 N 48. 60 교 5 51. N あるととというないからなっていることできると 45. Fob. a 47 0.44 80 Jan. PM 8 O 45.6 Dato 

Daily Afternoon and Morning Water Temperatures, Battle Creek at Old Battle Creek Hatchery
Hand thermometer readings taken one mile upstream from mouth of Battle Creek, Tehama County, California
Sec. 11, T. 29 N., R. 3 W., Mt. Diablo B. & M.

|                 | Pag  |           |          |       |        |       |        |           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |          |          |       |       |        |       |            |
|-----------------|------|-----------|----------|-------|--------|-------|--------|-----------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|----------|----------|-------|-------|--------|-------|------------|
|                 | Now  |           |          |       |        |       |        |           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |          |          |       |       |        |       |            |
|                 | Oat  |           |          |       |        |       |        |           |       |         |       | ~~    |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |          |          |       |       |        |       |            |
|                 | Sont |           |          |       |        |       |        |           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |          |          |       |       |        |       |            |
| 5, 19 43        | Aug  |           |          |       |        |       |        |           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |          |          |       |       |        |       |            |
| Pahronhot t.    | July |           |          |       |        |       |        |           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |          |          |       |       |        |       |            |
| in dogroos      |      | PM 8 AM   |          |       |        |       |        |           |       |         |       | 66 62 |       |       |       |       |       |       | 38 63 |       |       | 60 60 |       | 34 58 |          | 1     | 1     | 1        | ı        | 1     | 1     | 1      |       | 3.4 59.2   |
| Tomporature, in | May  |           | 52       | 54    | 225    | 99    | 54     | 55        | 54    | 54      | 54    | 55    | 54    | 58    | 54    | 54    | 52    | 52    | 52    | 54    | 57    | 57    | 58    | 09    | 09       | 82    | 62    | 62       |          |       |       | - 09 0 |       | 1.3 56.4 6 |
| Tompor          | or-  |           | 50 56    |       |        |       |        |           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |          |          |       |       |        | 58    | 52.2 61    |
|                 | A    | 4 PM      | 28       | 26    | 58     | 56    | 54     | 56        | 54    | 52      | 52    | 53    | 57    | 58    | 09    | 61    | 56    | 58    | 58    | 58    | 58    | 53    | 56    | 56    | 58       |       |       |          |          |       |       |        |       | 2 55.9     |
|                 | Mar  | Pli 8 Al  | 4. 50 46 | 52 48 | 50 48  | 52 50 | 52 50  | 52 50     | 51 49 | 53 51   | 52 52 | 54 52 | 52 48 | 50 48 | 52 52 | 52 48 | 18 46 | 18 46 | 17 46 | 50 46 | 50 46 | 50 46 | 51 49 | 54 50 | 54 50    | 54 50 | 56 52 | 58 52    | 57 53    | 57 53 | 54 50 | 18 46  | 50 48 | 51.8 49.   |
| -               | Fob. | 8         |          | WH .  | ₹1     | 4     | 4      | 4         | *     | 4       | 4     | 4     | 4     | 4     | 4     | 4     | 48    | 48    | 20    | ŭ     | 2     | 2     | ນ     | 2]    | 4        | w     |       | 946      | 84       | 46    |       |        |       | 7 46.8     |
|                 |      |           | 46.      |       |        | 48    | 20     | <b>\$</b> | 48    | 44      | 44    | 46    | 46    | 48    | 20    | 20    | 20    | 20    | 52    | 55    | 52    | 52    | 51    | 51    | 20       | A .   | 46    | 48       | 20       | 20    |       |        |       | 48         |
|                 | Jane | 4 Pil 8 A | 49 48    | 48 45 | ন্থা : | 46 44 | 9      | 46 44     |       |         |       |       |       |       |       |       |       |       | 44 42 |       |       | 38 38 |       |       | <b>4</b> | ഗ     | 9     | <b>9</b> | <b>ω</b> |       | 9     | 48 46  | 4     | 45.8 44.   |
|                 |      | Dato 4    | 7        | ~     | en .   | 41    | s<br>S | 9         | _     | <b></b> | 6     | 10    | 11    | 12    | 23    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23       | 24    | 92    | 26       | 27       | 28    | 53    | 30     | 31    | Av.        |

Water Temperatures, Battle Creek near Mouth \* mile upstream from mouth of Battle Creek, Tehama County, Calif. & M. Diable B. 批 29 M., R. 3 Hand thermometer readings taken one-half EH Sec. 11, No.

9.94 8AM Nov 50.2 ZZZZZZZZZZZZZZZZZ Oct. Sopt 19 48 Fahronhoit, July dogroos June in Tomporaturo, F F F F F F 55 4 53.7 51.3 47.7 #84 148 22020 はなななななななななない。 3.6 **ध्ययध**ाः σ 18 FPH 1777 Fob. 4.94 P. 54 4. Jan. FPH 48 41 47

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20 to April 18, temperatures were taken two miles upstream. From March

AV.

46 416

Dato

200400000

Daily Afternoon and worning Water Temperatures, Will Creek near Los Molinos Thermograph located one mile north of Los Molinos, Tehama County, California. Sec. 5, T. 25 N., R. 2 W., Mt. Diablo B. & M.

Tomporature, in degrees Fahronheit, 1947 and 1948

|      |      |           |         |    |    |       |    |    |    |    |    |       |    |    |    | -  |    |         |    |       |    |    |    |       |    |      |    | _  |    |    |    |       |    |              |
|------|------|-----------|---------|----|----|-------|----|----|----|----|----|-------|----|----|----|----|----|---------|----|-------|----|----|----|-------|----|------|----|----|----|----|----|-------|----|--------------|
|      |      |           |         |    |    |       |    |    |    |    |    |       |    |    |    |    |    |         |    |       |    |    |    |       |    |      |    | }  |    |    |    |       |    |              |
| ļ    | Lar  | Pi 8 AV   | 49 43   |    |    |       |    |    |    |    |    | 51 44 |    |    |    |    |    | 49 43   | 41 | 48 45 |    |    |    | 52 47 |    | - 44 | 1  | 1  | 1  | 1  | 1  | 1     | 1  | 40.2.43.9    |
|      | og.  | Pi 8 AF 5 | 43 39   | 39 | 37 | 38    | 38 | 39 | 38 | 39 | 41 | 43 41 | 37 | 35 |    | 38 | 1  | 1       | 1  | 1     | ı  | 1  | 1  | 47    | 49 | 42   | 42 | 44 | 45 | 44 | 44 |       |    | 44.5.40.5 L  |
| 1948 | Jan. | 11. 5     | 40 40 4 | 41 | 46 | 46    | 50 | 49 | 49 | ES | 54 | 44    | 42 | 41 | 42 | 42 |    | 43 42 - |    |       |    |    |    | 42    | 44 | 44   | 43 | 40 |    | 37 | 39 | 41 39 |    | 45.1 42.8 44 |
|      |      |           |         | _  |    | ,     |    |    |    |    |    |       |    |    |    |    |    |         |    | _     |    |    |    |       |    |      | _  |    |    |    |    |       |    |              |
|      |      |           |         | _  | _  |       |    |    |    | _  |    | _     |    | -  |    |    |    |         | _  | _     | -  | -  |    |       |    |      |    |    |    |    |    |       |    | _            |
| 1947 | Dec  | 5 FM 8 AM |         |    |    | 47 45 |    |    |    |    |    |       |    |    |    |    |    | 45 42   |    |       |    |    |    |       |    | 4    | A, | 4  |    |    |    | 44 38 |    | 45.1 42.0    |
|      |      |           |         |    |    |       |    |    |    | -  |    |       |    |    |    |    |    |         |    |       |    |    |    |       |    |      |    |    |    |    |    |       |    |              |
|      |      | Dato      | 1       | N  | 80 | 41    | ည  | 9  | 7  | œ  | o  | 10    | 11 | 12 | 13 | 14 | 15 | 16 .    | 17 | 18    | 19 | 20 | 21 | 22    | 23 | 24   | 25 | 56 | 27 | 28 | 29 | 30    | 51 | Av. I        |

48

Hand thermometer readings taken two miles northeast of Vina, Tehama County, California Sec. 31, T. 25 No., R. 1 Wo., Mt. Diablo B. & M.

Tomporature, in degrees Fahronhoit, 1941 and 1942

|      |         |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |     |    |    |        |    |    |     |    |    |    |    |    | Death  |
|------|---------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|-----|-----|----|----|--------|----|----|-----|----|----|----|----|----|--------|
|      | Tinl to | 4 PW | 82 | 82 | 83 |    |    | ,  | 1  | ,  | 1  | 1  | ,  | ,  | 1  | ,  | ı  | ,   | ,   | 1  | ı   | ı   | 1  | •  | 1      | 1  | 1  | 1   | ı  | 1  | 1  | 1  | -  | . 82,3 |
|      | June    | 4 PM | 65 | 64 | 99 | 67 | 89 | 67 | 67 | 67 | 68 | 68 | 67 | 69 | 71 | 72 | 70 | 7.1 | 7.1 | 70 | 7.1 | 7   | 77 | 73 | 75     | 75 | 72 | 71. | 72 | 92 | 78 | 79 |    | 70.4   |
| 1942 | Marr    | 4 PM | 55 | 26 | 09 | 28 | 09 | 63 | 63 | 63 | 56 | 55 | 54 | 53 | 58 | •  | 58 | 09  | 62  | 62 | 63  | 67  | 67 | 65 | 64     | 63 | 09 | 57  | 63 | 28 | 09 | 19 | 63 | 60.2   |
|      |         |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |     |    |    |        |    |    |     |    |    |    |    |    |        |
|      |         |      |    |    |    |    |    |    |    |    |    | -  |    |    |    |    |    |     |     |    |     |     | -  |    |        |    |    |     |    |    |    |    |    |        |
|      | July    | 4 函  | 08 | 78 | 79 | 80 | 82 | 82 | 84 | 82 | 84 | 84 | 1  | 82 | 81 | 79 | 83 | 79  | ,   | 1  | 81  | 83  | ,  | 86 | 78     | 80 | 43 | 75  | 75 | 42 | 79 | 80 | 81 | 80.5   |
|      | June    | 4 PM | 63 | 64 | 64 | 67 | 99 | 99 | 65 | 67 | 70 | 74 | 74 | 77 | 92 | 72 | 72 | 68  | 20  | 72 | 69  | 72  | 70 | 64 | r<br>r | 67 | 69 | 70  | 70 | 73 | 76 | 79 |    | 6.69   |
| 1941 | May     | 4 PM | ,  | 1  | 1  | -  | 1  | i  | 1  | 1  | ı  | 1  | ı  | 1  | 1  | ı  | 1  | ı   | ı   | ı  | 1   | 63  | 67 | 70 | 20     | 89 | 67 | 62  | 64 | 09 | 90 | 19 | 63 | 64.8   |
|      |         |      |    |    |    | _  | _  |    |    | _  | _  | _  |    | _  | _  |    |    | _   |     | _  | _   | -   | _  | _  | _      | _  |    |     | _  |    | _  |    |    | -      |
|      |         |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |     |    |    |        |    |    |     |    |    | -  |    |    |        |
|      |         | Date | 1  | ~  | 8  | 41 | တ  | 9  | 7  | 8  | 0  | 10 | 11 | 27 | 13 | 14 | 15 | 91  | 17  | 18 | 13  | 500 | 21 | 22 | 200    | 24 | 52 | 92  | 27 | 28 | 59 | 30 | 3. | Av.    |

TABLE 44

Daily Maximum and Minimum Water Temperatures, Deer Creek near Vina Thermograph located two miles northeast of Vina, Tehama County, California Sec. 31, T. 25 N., R, 1 W., Mt. Diablo B. & M.

Temperature, in degrees Fahrenheit, 1943 and 1944

|      | 14   | Min.   | 99  | 65 | 99 | 1  | ı  | 1   | ı  | 1  | 1   | ŧ   | ,   | ı          | 1   | ı  | 1  |    | 1   | ı   | ı    | 1  | ı   | 1  | 1  | 1  | ı  | i  | i  | 1  | 1   | ı  | 1  | 35.7 |
|------|------|--------|-----|----|----|----|----|-----|----|----|-----|-----|-----|------------|-----|----|----|----|-----|-----|------|----|-----|----|----|----|----|----|----|----|-----|----|----|------|
|      | July | Lax    | 83  | 83 | 1  | Ł  | ı  | 1   | ı  | ı  | ı   | 1   | 1   | 1          | 1   | ı  | 1  | 1  | ı   | ı   | 1    | i  | 8   | ı  | 1  | 1  | ŧ  | 1  | 1  | 1  | ı   | ı  | 1  | 83.0 |
|      | 00   | Win.   | 58  | 56 | 53 | 57 | 61 | 63  | 64 | 09 | 62  | 63  | 65  |            | 63  | 62 | 58 | 57 | 58  | 61  | 26   | 61 | 61  | 62 | 64 | 63 | 99 | 99 |    | 65 |     | 99 |    | 61.7 |
|      | June | Max.   | 68  | 19 | 29 | 73 | 16 | 43  | 78 | 73 | 74  | 78  | 80  | 80         | 77  | 65 | 99 | 72 | 7.1 | 7.1 | 75   | 92 | 76  | 78 | 80 | 75 | 79 | 80 | 80 | 00 | 83  | 83 |    | 75.0 |
|      | 7.   | Kin.   | 55  | 55 | 56 | 55 | 82 | 58  | 59 | 58 | 56  | 55  | 53  | 54         | 52  | 56 | 52 | 53 | 52  | 50  | 54   | 56 | 59  | 59 | 56 | 57 | 58 | 60 | 62 | 62 | 62  | 09 | 61 | 56.5 |
|      | May  | Max.   | 99  | 67 | 99 | 29 | 69 | 70  | 70 | 68 | 68  | 65  | 63  | 60         | 68  | 62 | 65 | 62 | 52  | 99  | 7.1  | 92 | 77  | 74 | 75 | 92 | 46 | 85 | 76 |    |     | 72 | 64 | 9.69 |
|      |      | Min.   | 49  | 51 | 52 | 52 | 47 | 47  | 47 | 48 | 45  | 49  | 50  | 48         | 47  | 47 | 49 | 46 | 46  | 45  | 50   | 44 | 43  | 47 | 52 | 20 | 48 | 50 | 49 | 52 | 55  | 55 |    | 48.7 |
|      | Apr. | Max.   | 65  | 63 | 9  | 52 | 58 | 52  | 28 | 56 | 57  | 58  | 56. | 57         | 51  | 57 | 57 | 57 | 54  | 58  | 54   | 53 | 22  | 61 | 59 | 09 | 58 | 53 |    | 62 | 63  | 99 |    | 58.0 |
| 1    |      | Min.   | 2.2 | 40 | 43 | 44 | 41 | 4.3 | 45 | 45 | 48  | 47  | 47  | <b>¥</b> 8 | 44  | 39 | 38 | 42 | 46  | 47  | 46   | 43 | 42  | 43 | 46 | 45 | 44 | 47 | 42 | 44 | 45  | 49 | 49 | 44.2 |
|      | Mar  | Max.   | 47  | 48 | 45 | 46 | 8  | 48  | 52 | 99 | 54  | 56  | 51  | 52         | 52  | 48 | 55 | 56 | 60  | 58  | 56   | 54 | 99  | 58 | 56 | 59 | 56 | 58 | 09 | 62 | 64  |    | 65 | 54.7 |
|      | •    | Min.   | 46  | 46 | 44 | 42 | 47 | 45  | 46 | 47 | 43  | 40  | 40  | 39         | 38  | 40 | 40 | 37 | 38  | 37  | 41   | 40 | 42  | 41 | 43 | 40 | 40 | 41 | 40 | 43 | 42  |    |    | 41.7 |
|      | Feb. | Max.   | 47  | 47 | 46 | 46 | 21 | 53  | 21 | 20 | 67  | 49  | 49  | 48         | 48  | 48 | 50 | 49 | 51  | 49  | 20   | 51 | 43  | 46 | 82 | 51 | 50 | 55 | 20 | 46 | 45  |    |    | 48.8 |
|      | 1.   | Min.   | •   | 1  | 8  | 1  | 1  | 1   | 1  | 1  | 1   | 1.  | 39  | 39         | 38  | 47 | 39 | 43 | 40  | 40  | 37   | 38 | 38  | 39 | 44 | 41 | 38 | 36 | 37 | 35 | 39  | 42 | 44 | 39.4 |
| 1944 | Jan. | Liax.  | 1   | 1  | 8  | 1  | 1  | 1   | ı  | 1  | 1   | 4.3 | 47  | 47         | 45  | 49 | 20 | 48 | 52  | 52  | 49   | 67 | 48  | 48 | 47 | 49 | 47 | 42 | 46 | 42 | 44  | 44 | 49 | 47.2 |
|      | Ly . | Min.   | 65  | 65 | 99 | 99 | 67 | 68  | 68 | 67 | 49  | 69. | 70  | 67         | 1   | 1  | ı  | ı  | 1   | 1   | ł    | 1  | ı   | 1  | 1  | ı  | ı  | ı  | 1  | ı  | ı   | 1  | 1  | 67.1 |
|      | Jul  | l'ax.  | 80  | 80 | 81 | 82 | 34 | 85  | 85 | 85 | 87  | 88  | 87  | 85         | ı   | ı  | ı  | ı  | ı   | 1   | 1    | ı  | ı   | 1  | ı  | ı  | ı  | 1  | 1  | 1  | ı   | 1  | 1  | 84.3 |
|      | J.   | i.în.  | 56  | 54 | 54 | 53 | 56 | 55  | 58 | 61 | 90  | 62  | 61  | 60         | 58  | 09 | 61 | 63 | 65  | 99  | 61   | 19 | 60  | 58 | 59 | 59 | 56 | 58 | 61 | 65 | 65  | 64 |    | 59.7 |
|      | June | ABX.   | 64  | 99 | 64 | 99 | 67 | 69  | 73 | 72 | 75  | 74  | 73  | . 69       | 73. | 75 | 78 | 1  | 1   | 77  | 77   | 74 | 75  | 73 | 74 | 70 | 73 | 94 | 80 | 81 | 80  | 80 |    | 73.1 |
|      | 7    | Lin    | 51  | 53 | 55 | 56 | 54 | 54  | 53 | 52 | 53  | 55  | 53  | 52         | 52  | 51 | 50 | 49 | 51  | 54  | 55   | 55 | 56  | 9  | 62 | 64 | 65 | 99 | 64 | 63 | 63  | 62 | 59 | 55.1 |
|      | May  | Eax.   | 62  | 62 | 65 | 65 | 64 | 65  | 63 | 63 | 65  | 99  | 63  | 63         | 64  | 62 | 62 | 62 | 65  | 67  | 67   | 68 | 7.1 | 74 | 77 | 80 | 29 | 80 | 77 | 78 | 75  | 99 | 09 | 67.7 |
|      | •    | l'in   | 47  | 48 | 20 | 51 | 52 | 48  | 20 | 48 | A 3 | 45  | 47  | 50         | 52  | 54 | 52 | 54 | 54  | 53  | 54   | 51 | 51  | S  | 53 | 52 | 52 | 50 | 51 | 51 | 4.7 | 53 |    | 50.5 |
|      | Vor  | : ax : | 58  | 59 | 28 | 22 | 57 | 58  | 54 | 53 | 52  | 55  | 59  | 85         | ₹9  | 64 | 56 | 62 | 62  | 6:2 | . 61 | 55 | 55  | 60 | 63 | 19 | 60 | 56 | 52 | 54 | 56  | 52 |    | 58.1 |
| 23   | ٠    | าน.    | 1   | 1  | 1  | 1  | 1  | ı   | 1  | ı  | 1   | ,   | ,   | ı          | 1   | 1  | 1  | 1  | J.  | 1   | 1    | 1  | ı   | ı  | ı  | 1  | £3 | 52 | 1  | 1  | 0,4 | 51 | 44 | 48.8 |
| 1943 | i.ar | ax.    | 1   | 1  | 1  | 1  | 1  | 1   | 1  | ı  | 1   | 1   | 1   | 1          | 1   | 1  | 1  | 1  | 1   | ı   | 1    | E  | 1   | ı  | i  | 52 | 57 | 69 | 1  | 24 | 59  | 53 | 54 | 56.4 |
|      |      | Date   | 7   | 2  | 23 | *  | വ  | 9   | 7  | ω  | 6   |     | 11  |            | 13  | 14 | 15 | 16 | 17  | 18  | 19   | 20 | 21  | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29  | 30 | 31 | Av.  |

Daily Afternoon and Morning Water Temperatures, Deer Creek near Vina Hand thermometer readings taken two miles northeast of Vina, Tehama County, California Sec. 31, T. 25N., R 1W., Mt. Diablo B.&M.

emperature, in degrees Fahrenheit, 194

|             | Poe  |           |  |             |
|-------------|------|-----------|--|-------------|
|             |      | 5PM SAK   |  |             |
|             | Oct. | FPM 8AM   |  |             |
|             | Sopt | 5PM SAM   |  |             |
| t, 1945     | Aug  | FPM SAM   |  |             |
| Fahronhoit, | July | 5FM 8AM   | 2 - 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | 86.2 72.2   |
| in degrees  | _    | FPM 8AM   |  | 753 63.6    |
|             |      | SAM       |  | 7.5         |
| Tomp        | Apr. | 5PM SAM 5 | 2 2222 2 22 22 45 EEE EEE EEE  | 4           |
|             | Mar. | FPM 8AM   | よりはいい かんけんない なれなれた なんななない できない かんなんない できない しょうしょう これにはない しょうしょう しょうしゃく しょうしゃく しょうしょう しょう | m           |
|             | Fcb. | N.        | 100 0000 0 0000 0 0000   | भु. ५ भा. ६ |
|             | Jan. | 3         | 1444   44   45   45   44   45   45   45  | <i>⇒</i> .  |
|             |      | Dato      |  | Av.         |

\* Temperatures taken at 12 noon.

Daily Afternoon and Morning Water Temperatures, Deer Greek near Vina Hand Thermometer Readings taken two miles northeast of Vina, Tehama County, California Sec. 31, T. 25M.; R 1W., Mt. Diablo B.&M. TABLE 46

|                 | The s | The State | 51 49 |    |    |    |      |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            | 12 75 |     |    |       |    |          |    | 43 39            | 0         |
|-----------------|-------|-----------|-------|----|----|----|------|----|----|----|----|---------|----|----|----|----|----|----|-----|-----|----|------------|-------|-----|----|-------|----|----------|----|------------------|-----------|
|                 |       | SPW SAW   | 1     | 1  | 1  | ı  | 1    | ı  | 1  | ı  | ı  |         | 1  | ı  | 1  | 1  | 1  | 1  | 1   | 1 1 | 27 | ‡ <u>‡</u> | 55    | 12, | ∄  | 1     | ı  | 1 1      | 1  | 1                | 49.8 45.5 |
|                 | 00+   |           |       |    |    |    |      |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            |       |     |    |       |    |          |    |                  |           |
|                 | Sont. |           |       |    |    |    |      |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            |       |     |    |       |    |          |    |                  |           |
| t, 1946         | Aug.  |           |       |    |    |    |      |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            |       |     |    |       |    |          |    |                  |           |
| Fahronhoit,     | July  |           |       |    |    |    |      |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            |       |     |    |       |    |          |    |                  |           |
|                 | Juno  | SPH 8AH   | 73 63 |    |    |    |      |    |    |    |    | 14 62 H |    |    |    |    |    |    |     |     |    |            | 3 67  |     |    | 2 20  |    |          | 1  | ı                | 74.9 64.8 |
| Tomporaturo, in | May   |           | 志     | 26 | 56 | 57 | 57   | 58 | 58 | 55 | 26 | 29      | 59 | 58 | 58 | 58 | 23 | 9  | 8,0 | 25  | #0 | 3.6        | 57    | 击   | 57 | 500   | 20 | 20.0     |    | 62               | .5 58.6   |
| Tompor          | _     | =         | -     | -  | _  |    | -    | -  | -  |    |    |         |    | -  | _  | -  |    | -  |     | -   |    | _          | _     |     | _  | 27    | _  | 61 56 67 |    | 52 Tr            | 7 51.6 65 |
|                 | _     | ===       |       |    | _  |    |      |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            |       |     |    | -     |    |          |    |                  | 5 58.     |
|                 | Mar.  | 5PH 8AM   |       |    |    |    |      |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            | 52 47 |     |    |       |    |          |    | 法<br>表<br>表<br>法 | 51.3 46   |
|                 | op.   |           |       |    |    |    |      |    |    |    |    | 142 140 |    |    |    |    |    |    |     |     |    |            |       |     |    | Le to |    | 52 46    |    |                  | 45.3 41.2 |
|                 | Jane  | 5 PM 8 AM | 1     |    |    |    | 46 法 |    |    |    |    |         |    |    |    |    |    |    |     |     |    |            |       |     |    |       |    |          |    | 42 37<br>43 38   | 12.9 41.1 |
|                 |       | 3         | -     | ~  | 89 | 작  | മ    | 9  | 7  | 80 | 0. | 10      | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 0 0 | 67 | 25         | 22    | 23  | 24 | 2 90  | 22 | 28       | 59 | 30               | Av.       |

Calif. of Vina, Tehama County, Diable B. &M. miles northeast R 1W. TABLE Temeratures, 25N: E two. 31, Water Sec. Daily Temperatures

ਤੁ 7,2 32333 돠 Max 452 9.04 ひさむる 50.5 37 I I 56.7 60.7 65.8 Scot. 73.0 22254058 67.5 **67** 1947 74.1 Yex Fahronhoit, 69.0 225627 68 0 80.8 80 80 888 8 8.49 dogroos 75.6 in 62.4 Temporaturo, 75.6 52.3 Apr. 4.19 # 6th 53.6 147 45. ささ8ささむさわむる だだだだ 당국국국군군군경공 9 20 38.3 Jan. SAN れるととととなるなどなるとなるととなるととととととといっている。 Q 43. AV. 

and 5PM hand thermometer readings. - thermograph maximum and minimum readings. SPM and 8AM 31 December 1 22 August 23 to to June 18 and from August March and from June 19 Records January through through Records April 1

Daily Laximum and Minimum Water Temperatures, Deer Creek near Vina Thermograph located two miles northeast of Vina, Tehama County, California Sec. 31, 7. 25 N., R. I W., R.t. Diablo B. & M.

|           |      | -    | -    | -      |        | -     | Lon       | ampora turo, | uro, i | F    | degroos | Fahronhoi | hot t, | 19 48  | +   |         | +    |        | +    |                 | 1    |                                | 1    |
|-----------|------|------|------|--------|--------|-------|-----------|--------------|--------|------|---------|-----------|--------|--------|-----|---------|------|--------|------|-----------------|------|--------------------------------|------|
|           | Jane | 10   | Fob  |        | Mare   |       | Apr.      | M            | N.     | do.  | Juno    | July      |        | Aug    |     | Son     | -    | Oct    |      | Nov.            |      | Doo                            |      |
| Date      | Max. | in.  | ×    | Min. M | 9 3    | n.    | Max. Min. | Max          | · Min. | Max. | Min.    | ×         | Min    | Max. M | in  | form of | lin. | fax. E | lin! |                 | in   | B.X                            | יעני |
| -         |      |      |      | -      | 4      |       | 1         | 1            | 1      | 68   | 55      | 81        | 69     | 85     | 67  | 46      | 62   | 68     | 55   | 52              | _    |                                | 99   |
| ~         |      | _    |      | -      | 4      | _     | 1         | 1            | 1      | 68   | 57      | 80        | 99     | 85     | 89  | 43      | 61   | 65     | 54   | 54              | _    | - •                            | 38   |
| 20        |      |      |      | -      | 4      |       |           | 55           | ı      | 61   | 58      | 77        | 62     | 83     | 67  | 79      | 62   | 65     | 57   | 56              |      |                                | 6.0  |
| 41        |      |      |      | -      | 41     | 0     | 1         | 09           | 49     | 61   | 56      | 75        | 61     | 82     | 65  | 78      | 63   | 65     | 58   | 52              |      |                                | 52   |
| က         |      |      |      | -      | 4º     |       | 1         | 63           | 52     | 57   | 53      | 64        | 60     | 82     | 65  | 79      | 62   | 65     | 55   | 52              | -    |                                | 38   |
| 9         |      | _    |      |        | A,     | _     | 1         | [9]          | 53     | 64   | 53      | 73        | 58     | 82     | 65  | 43      | 63   | 99     | 53   | 51              | -    |                                | 38   |
| 7         |      |      |      |        | 4      | -     | I I       | 56           | 50     | 68   | 57      | 74        | 09     | 81     | 64  | 79      | 64   | 67     | 54   | 51              | -    |                                | 6.0  |
| 60        |      | _    |      | -      | Al.    | 41    | 1         | 55           | 45     | 7.1  | 58      | 16        | 59     | 78     | 63  | 80      | 64   | 68     | 54   | 50              | 41   |                                | 40   |
| 6         | 47   | 42   | 43   | 39     | 55 44  | 4     | 1         | 56           | 46     | 68   | 9       | 79        | 19     | 46     | 64  | 80      | 64   | 68     | 54   | 50              |      | 43 3                           | 53   |
| 10        |      | _    |      |        | 41     | 3     | 1         | 09           | 49     | 67   | 59      | 82        | 65     | 80     | 64  | 80      | 62   | 99     | 54   | 51              | 2    |                                | 38   |
| 11        |      | _    |      | _      | A.     | 63    | 1         | 62           | 51     | 68   | 57      | 83        | 99     | 80     | 63  | 80      | 63   | 65     | 57   | 52              |      |                                | 42   |
| 12        |      |      |      | _      | 4      | 10    | 1         | 59           | 52     | 68   | 59      | 82        | 99     | 81     | 64  | 80      | 64   | 99     | 56   | 52              | 3    |                                | 44   |
| 80<br>e-l |      |      |      | -      | ₹!     | 10    | 1         | 61           | 52     | 68   | 57      | 83        | 99     | 81     | 65  | 78      | 63   | 62     | 55   | 51              |      |                                | 41   |
| 14        |      |      |      |        | 4      | 23    | 1         | 62           | 51     | 70   | 59      | 84        | 67     | 80     | 65  | 75      | 62   | 63     | 55   | 48              | 50   |                                | 63   |
| 16        |      |      |      | -      | 4      | 0     | 1         | 63           | 51     | 69   | 58      | 87        | 68     | 80     | 64  | 73      | 09   | 65     | 53   | 52              | 47   |                                | 39   |
| 16        |      |      |      | 44     | 4      | 2     | 1         | 64           | 54     | 7.1  | 58      | 86        | 69     | 78     | 63  | 63      | 69   | 64     | 53   | 67              | 1    |                                | 38   |
| 17        |      | -    |      | 14     | 2 4    | -     | 1         | 63           | 56     | 72   | 09      | 85        | 69     | 78     | 62  | 67      | 57   | 65     | 53   | 20              |      |                                | 38   |
| 18        |      |      |      | 17     | 7 4    | 3     | 1         | 55           | 50     | 73   | 60      | 86        | 69     | 78     | 64  | 68      | 59   | 64     | 51   | 48              |      |                                | 36   |
| 19        |      |      |      | 14     | 2 4    | -     |           | 52           | 49     | 73   | 19      | 85        | 69     | 78     | 62  | 7.1     | 58   | 62     | 50   | 45              | -    |                                | 34   |
| 20        |      |      |      | #3     | 7 4    |       | 7 5       | 53           | 48     | 73   | 62      | 86        | 68     | 80     | 63  | 17      | 58   | 19     | 50   | 49              | -    |                                | 36   |
| 21        |      |      |      | 45     | 55 43  | -     | 49 46     | 58           | 47     | 75   | 61      | 85        | 69     | 78     | 64  | 69      | 57   | 62     | 50   | 48              | 40   |                                | 37   |
| 22        |      |      |      | 1 2    | 0      | -     | 1 4       | 63           | 49     | 74   | 62      | 84        | 67     | 77     | 63  | 67      | 57   | 61     | 51   | 48              |      |                                | 34   |
| 23        |      |      |      | 42     | 1      | _     | 3 4       | 67           | 54     | 94   | 63      | 82        | 1997   | 7.1    | 62  | 29      | 56   | 62     | 20   | 49              |      |                                | 2    |
| 24        |      |      |      | 40     | 1      |       | 5         | 68           | 57     | 78   | 63      | 81        | 64     | 72     | 62  | 64      | 53   | 63     | 52   | 50              | -    |                                | 7    |
| 25        |      |      |      | 42     | 1      | -     | 8 4       | 68           | 57     | 79   | 64      | 83        | 65     | 79     | 63  | 64      | [G   | 61     | 19   | 47              | 39   |                                | 34   |
| 26        |      |      |      | 43     | 1      |       | 1         | 69           | 58     | 80   | 65      | 84        | 68     | 4      | 64  | 64      | 52   | 9      | 48   | 45              | 38   | 38 3                           | 36   |
| 27        |      |      |      | 53     | 1      | -     | 1         | 62           | 55     | 81   | 99      | 83        | 67     | 80     | 64  | 99      | 52   | 54     | 45   | 45              | 36   | 42                             | 38   |
| 28        |      |      |      | #3     | 1      | -     | 1         | 57           | 52     | 82   | 67      | 46        | 65     | 80     | 65  | 67      | 52   | 23     | 45   | 43              | 34   | 46 4                           | 0    |
| 53        | N    |      |      | 47     | 1      |       | 1         | 55           | 20     | 84   | 69      | 84        | 64     | 80     | 63  | 68      | 53   | 26     | 48   | 45              | 36   | 43 4                           | 0    |
| 30        | 4    | 35   |      |        | 1      |       |           | 56           | 51     | 85   | 7.1     |           |        | 77     | 63  | 29      | 53   | 53     | 41   | 43              | 36   | 45 3                           | Ω    |
| 31        | 25   | 35   |      |        | 1      |       |           | 57           | 51     |      |         |           | 67     | 46     | 63  |         |      | 51     | 46   |                 |      | 40                             | 001  |
| Av.       | 43.4 | 40.2 | 47.9 | 40.0   | 51.4 4 | 2.4 5 | 3.8 46.2  | 60.0         | 51.4   | 71.7 | 7 60.3  | 81.2      | 65.3   | 79.2 6 | 3.9 | 72.7    | 58.9 | 62.3   | 52.9 | 49.3 4          | 41.9 | 42.3 3                         | 37.4 |
|           |      |      |      |        |        |       | 1         |              | 1      |      |         |           |        | -      | -   |         |      |        |      | and the same of |      | A STATE OF THE PERSON NAMED IN | 1    |

PABLE 49

Daily Maximum and Minimum Water Temperatures, Stony Creek northwest of Orland
Tehama County, California
The mograph located at U. S. Bureau of Reclamation diversion, five miles northwest of Orland, Tehama County, California
Sec. 29, T. 23 N., R. 4 W., Mt. Diablo B. & M.

Tomporaturo, in dogrees Pahronhoit, 1946 and 1947

|      |      |               |          |       |       | -     | -     |       | _        |             |       |       | _     |    |       |       |       |       |    |    |       |       |    |       | _     | -     |       |       |       |    |       |       |       |             |
|------|------|---------------|----------|-------|-------|-------|-------|-------|----------|-------------|-------|-------|-------|----|-------|-------|-------|-------|----|----|-------|-------|----|-------|-------|-------|-------|-------|-------|----|-------|-------|-------|-------------|
|      | Apr  | Max Min       |          | 56 47 |       |       |       |       |          |             |       | 63 51 |       |    |       |       |       |       |    |    |       |       |    |       |       |       | 66 55 |       |       |    |       | 1     |       | 63.6 53.4   |
|      | Mar  | Mex Min       |          | 60 48 | -     | 58 47 | 58 47 | 57 46 | ঝ        | 57 46       | 4     |       | 58 46 |    |       |       |       |       |    |    |       | 52 50 |    |       |       |       | 61 50 | 60 49 | 4     | A. | 57 48 | ঝ     | 58 47 | 47,8        |
|      | Feb. | Max Win       |          | 56 44 |       |       |       |       |          |             |       |       |       |    |       |       |       |       |    |    |       |       |    |       |       |       |       | 4     |       | A, |       |       |       | 57.4 46.7   |
| 1947 | Jane | Max. Min.     |          | 57 46 |       |       |       |       |          |             |       |       |       |    |       |       |       | 52 41 |    |    |       | 55 43 |    |       |       |       |       |       |       |    |       | 51 44 |       |             |
|      |      |               |          |       |       |       |       |       |          |             |       |       |       |    |       |       |       |       |    |    |       |       |    |       |       |       |       |       |       |    |       |       |       | States      |
|      |      |               |          |       |       | -     |       |       |          |             |       |       |       |    |       |       |       |       |    |    |       |       |    |       |       |       |       |       |       |    |       |       |       |             |
|      | Doc  | Max. Min.     | 53 48    | 57 47 |       |       |       | 55 49 |          | 58 49       | 59 48 |       | 59 49 |    |       | 56 51 | 58 52 |       |    |    |       | 55 47 |    |       | 58 47 |       | 58 47 | 59 47 |       | 4  | 57 48 | 57 46 | 56 46 | 57,3 48,0   |
|      | Nov. | Min           | 46       | 58 45 | 59 46 | 60 43 | 59 44 | 59 46 | ঝ        | 41          | 59 45 | 4     | 58 43 | 41 | 60 49 | 61 48 |       | 58 46 |    |    | 65 50 |       | ₹' | 61 45 | 60 44 | 53 42 | 57 47 |       | 59 48 | 4  | 59 49 | 57 48 |       | 59.0 46.01  |
| 1946 | Oct  | in the second | 1        | 1     | 1     | ı     | I     | 1     | 1        | !           | 1     | 1     | 1     | ,  | 1     | '     | '     |       |    |    |       | 37 53 |    |       |       |       | 73 57 |       |       |    |       | 59 46 | 45    | 64.8.50.7.5 |
|      |      | 1             |          |       | -     |       |       | -     | A COLUMN | -           | 1     |       | -     |    | 1     | -     | _     |       | Φ  | Ψ. | Ф     | θ     | Φ  | Φ     | θ     | 7     | 7     | 0     | W.    | 90 | 10    | in .  | 9     | 9           |
| -    | 1    | Date          | <b>—</b> | ~     | in 1  | d1 1  | ۵ (   | 9     | 7        | <b>50</b> ( | 0     | 01    | = :   | 12 | 22    | 7     | 15    | 16    | 17 | 18 | 19    | 02    | 22 | 22    | 23.   | 24    | 26    | 28    | 27    | 28 | 59    | 30    | 3.1   | Av.         |

Thermograph located at U. S. Bureau of Reclamation diversion, five miles northwest of Orland, Tehama County, California Sec. 29, T. 23 N., R. 4 W., Mt. Diablo B. & M.

|  | Page  | 4         |      |      |       |   |       |       |      |       |       |      |    |       | -     |        |       |      |      |       |       |      |        | -     |       |      |      |        |            |      |      |       |      |           |
|--|-------|-----------|------|------|-------|---|-------|-------|------|-------|-------|------|----|-------|-------|--------|-------|------|------|-------|-------|------|--------|-------|-------|------|------|--------|------------|------|------|-------|------|-----------|
|  | Now   | N. A. Tar |      |      |       | • | ·     |       |      |       | , .   |      |    |       |       |        |       |      |      |       |       |      |        |       |       |      |      |        |            |      |      |       |      |           |
|  | Oct   | ax. Min.  |      | - 62 | 1     |   |       | 69 62 |      | 70 63 | 71 64 | 1    |    | 72 65 | 71 60 | 73 65  | 71 63 | ı    | 1    | 70 62 | 68 59 |      |        |       | 68 60 |      | 1 99 |        |            |      |      | 58 51 |      | .0 60.5   |
|  | 15    | ine       |      | 202  | -     | - | 1     |       | 70   |       |       |      | -  | -     | 70 7  |        | _     | 68   | -    | 1     | _     |      |        | _     | 63 6  | _    | 1    | -      |            |      | 61   |       | 47   | 67.1 67   |
|  | Sept. | Max       | 49   | 79   | 42    | 1 | 1     | 79    | 79   | 80    | 80    | 81   | ı  | 1     | 78    | 77     | 16    | ı    | 1    | ı     | ı     | 76   | 75     | 70    | 17    | 89   | 1    | 1      | 70         | 20   | 7.1  | 70    |      | 75.4      |
| 9 48                                     | Aug   | c. Min    | 1    |      | Z I   |   |       |       | 1    | 17 (  |       | 2 72 |    | ı     | ı     | 1      | 1     |      |      | 70    | 1     | 1    | 4      | 1     | 3 70  |      |      |        | 1          | 1    |      | 3 70  |      | 0 70.4    |
| oft, 1                                   |       | Min Max   | Ŀ    | _    | 59 81 | _ |       | _     |      |       | - 82  | _    | 99 | 53    | 53    | -      | 1     | - 79 | - 79 | - 89  | - 99  | - 99 | -   19 | - 129 | - 78  | - 78 |      | 71 78  | - 21       | - 02 |      | 37 78 | - 79 | 64.6 80.0 |
| Fahronh                                  | July  | Max. M    |      |      | 7.1   |   |       |       | 69   |       |       |      |    |       | 73 (  |        | 1     | ,    | 77   | 79    | 92    |      | 77 (   |       | 1     | 1    |      | 81     | 1          |      | . 62 |       |      | 74.1 6    |
| Tomporature, in degrees Fahrenheit, 1948 | June  |           |      |      |       |   |       |       |      |       |       |      |    |       |       |        |       |      |      |       |       |      |        |       | ,-    |      |      |        |            |      |      |       |      |           |
| poraturo,                                | May   |           |      |      |       |   |       |       |      |       |       |      |    |       |       |        |       |      |      |       |       |      |        |       |       |      |      |        |            |      |      |       |      |           |
| Tom                                      | Apr   | Max. Min. | •    | 1    | 1     | 1 | 54 46 |       | - 44 | 1     | 1     | 1    |    | 67 0  |       | ا<br>ا | 1     | ı    | 1    |       |       |      |        |       | 1     |      | 1    | 59 -   |            |      | 0 47 |       |      | 6.9 48.7  |
|  | 7.    | E         | 46 - | 1    | •     | 1 | 1     | 1     | -    | 1     |       | 40   | _  | -     | -     |        | _     |      |      | _     | -     |      | _      | 1     |       |      | 42   | l<br>L | ريا<br>ديا | -    | -    | 54    | 13   | 47.3 55.  |
|  | Mar   | Max       | 59   | 1    | 1     | 1 | 1     | 1     | 1    | 27    | 61    | 59   | 62 | 55    | 53    | 58     | 26    | 51   | 59   | 55    | 59    | 09   | 64     | 1     | 1     | 43   | 1    | 1      | 1          | ı    | 64   | 64    | 58   | .9 57.7   |
|  | Fobe  | Eax. Min. | 1    | 1    | 1     | 1 | 1     | 1     | 1    |       | 49 41 |      |    |       | 1     | 1      | 1     |      |      |       |       |      |        | - 51  |       |      |      | 58 47  |            |      |      |       |      | 54.2 45.  |
|  | Jan.  |           |      |      |       |   |       |       |      |       |       |      |    |       |       |        |       |      |      |       |       |      |        |       |       |      |      |        |            |      |      |       |      |           |
|  |       | Dato      | 7    | ~    | 10    | ঝ | rs.   | 9     |      | 8     | 6     | 10   | 11 | 72    | 73    | 14     | 15    | 16   | 17   | 18    | 19    | 20   | 23     | 22    | 200   | 54   | 52   | 26     | 27         | 28   | 53   | 30    | 31   | Av.       |

Daily Maximum and Minimum Water Temperatures, West Branch of North Fork of Feather River River County, California Sec. 23, T. 21 N., R. 4 E., Mt. Diablo B. & M.

Tomporature, in dogrees Fahrenhoit, 1946 and 1947

|      | 1946       | 9    |            |      | 1947 |      |      |      |      | -    |      |       |        |       |      |       |      |     |      |      |       |      |      |          |
|------|------------|------|------------|------|------|------|------|------|------|------|------|-------|--------|-------|------|-------|------|-----|------|------|-------|------|------|----------|
|      | Nov        |      | Dec        |      | Jan  |      | rep  |      | Lar  |      | Apr  |       | Lay    |       | June |       | July | V   | Aug  |      | Sept  | t.   | Oct  |          |
| Date | Max.       | Min  |            | Min. |      | ih.  | ax.  | Min. | Max. | lin  | Lax. | 'in l | lax. M | lin l | ax.  | Min 1 | ax.  | Min | ax.  | in   | l'ax. | Min  | ax   | in       |
| 1    | 15         | 67   |            | 46   | 45   | 388  | 44   | 40   | 50   | 49   | 1    | 1     | 09     | 57    | 64   | 09    | ı    | 72  | 81   | 7.4  |       | 1    | 02   |          |
| ~    | 52         | 47   | 22         | 45   | 44   | 38   |      | 40   | 49   | 49   | 48   | 46    | 62     | 09    | 72   | 61    | 80   | 75  | 8 8  | 75   | 76    | 70   | 70   | 99       |
| 8    | 51         | 48   | 49         | 48   | 43   | 37   | 44   | 40   | 49   | 48   | 49   | 47    | 62     | 09    | 64   | 61    | 80   | 7.5 | 82   | 76   | 76    | 70   | 202  | 67       |
| 4    | 20         | 46   | 20         | 47   | 42   | 35   | 1    | ,    | 48   | 45   | 47   | 44    | 09     | 59    | 99   | 63    | 80   | 72  | 5 6  | 7.3  | 76    | 70   | 2.   | - œ      |
| 10   | 1          | ı    | 20         | 49   | 2    | 38   | 46   | 42   | 47   | 43   | 47   | 44    | 09     | 58    | 65   | 64    | 80   | 73  | 80   | 7    | 26    | 69   | 202  | 88       |
| 8    | 20         | 1    | 49         | 48   | 1    | 1    | 47   | 42   | 46   | 43   | 47   | 46    | 61     | 09    | 64   | 63    | 81   | 74  | 80   | 73   | 76    | 20   | . 1  | )<br>) [ |
| 6    | 49         | 47   | 49         | 47   | 1    |      | 47   | 45   | 46   | 44   | 46   | 49    | 09     | 59    | 63   | 909   | 8    | 75  | 9 6  | 7.4  | 44    | 7.0  | S S  |          |
| 8    | 20         | 46   | 49         | 46   | 43   | 37   | 48   | 47   | 46   | 46   | 48   | 47    | 59     | 58    | 09   | 58    | 81   | 74  | 80   | 74   | - 1   | 3    | 67   | 1 9      |
| 60   | 50         | 45   | 48         | 4.3  | 44   | 88   | 49   | 47   | 48   | 46   | 49   | 42    | 59     | 56    | 61   | 58    | 82   | 75  | 8    | 74   | 7.5   | 70   | 99   | 8 6      |
| 10   | 20         | 45   | 47         | 43   |      | 39   | 49   | 47   | 47   | 45   | 50   | 46    | 59     | 56    | 64   | 09    | 81   | 75  | 79   | 7.1  | 74    | 0,0  | 65   | 6.8      |
| 11   | 49         | 46   | 47         | 43   |      | 40   | 49   | 47   | 4.7  | 44   | 51   | 49    | 09     | 55    | 99   | 62    | 81   | 75  | 79   | 77   | 75    | 70   | 62   | 58       |
| 35   | 48         | 45   | 48         | 44   |      | 43   | 49   | 47   | 47   | 43   | 52   | 48    | 09     | 58    | 68   | 63    | 81   | 73  | 79   | 72   | 74    | 69   | 61   | 56       |
| 13   | 49         | 46   | 47         | 45   | 44   | 41   | 48   | 44   | 47   | 44   | 53   | 50    | 61     | 58    | 70   | 65    | 82   | 75  | 80   | 74   | 75    | 69   | 61   | 1        |
| 14   | 48         | 47   | 47         | 46   |      | 38   | 48   | 45   | 48   | 45   | 54   | 51    | 61     | 57    | 72   | 62    | 82   | 75  | 80   | 74   | 76    | 70   | 63   | 1        |
| 16   | 49         | 46   | 84         | 46   |      | 88   | 49   | 48   | 49   | 46   | 55   | 52    | 63     | 59    | 72   | 69    | 82   | 76  | 80   | 75   | 1     | 69   | 64   | 62       |
| 36   | 49         | 47   | 48         | 42   | 4    | 35   | 20   | 47   | 49   | 46   | 55   | 54    | 65     | 09    | 72   | 7.1   | 82   | 76  | 81   | 75   | 73    | 70   | 64   | 57       |
| 17   | 20         | 64   | 47         | 42   |      | 34   | 49   | 45   | 20   | 47   | 54   | 54    | 67     | 62    | 75   | 70    | 82   | 192 | 82   | 74   | 73    | 70   | 53   | 56       |
| 18   | 51         | 49   | 46         | 40   |      | 33   | 47   | 45   | 20   | 48   | 54   | 51    | 68     | 63    | 75   | 17    | 83   | 92  | 82   | 74   | 73    | 68   | 9    | 56       |
| 19   | 52         | 49   | 46         | 40   |      | 36   | 49   | 46   | 21   | 20   | 54   | 53    | 68     | 64    | 77   | 75    | 83   | 7.9 | 80   | 75   | 70    | 99   | 09   | 57       |
| 2    | 49         | 46   | 46         | 42   | N    | 36   | 20   | 46   | 21   | 49   | 55   | 54    | 74     | 65    | 78   | 75    | 83   | 74  | 80   | 76   | 70    | 99   | 61   | 59       |
| 27   | £          | 4.7  | 46         | 41   |      | 36   | 20   | 46   | 20   | 48   | 55   | 53    | 75     | 70    | 77   | 75    | 82   | 75  | 79   | 76   | 77    | 99   | 9    | 58       |
| 22   | 20         | 47   | 46         | 42   |      | 36   | 49   | 46   | 51   | 49   | 53   | 52    | 75     | 72    | 77   | 73    | 83   | 76  | 77   | 72   | 7.1   | 67   | 61   | 55       |
| 20   | 67         | 46   | <b>₽</b> 1 | 44   |      | 38   | 20   | 47   | 20   | 48   | 54   | 51    | 75     | 73    | 78   | 73    | 82   | 16  | 92   | 7.1  | 72    | 68   | 59   | 55       |
| 54   | 48         | 43   | 48         | 46   |      | 39   | 1    | 1    | 8    | 45   | 55   | 52    | 74     | 73    | 80   | 73    | 82   | 75  | 77   | 7.1  | 72    | 68   | 50   | 55       |
| 52   | 1          | 1    | 49         | 47   |      | 41   | 20   | 48   | 20   | 46   | 54   | 52    | 75     | 72    | 80   | 75    | 80   | 75  | 77   | 7.1  | 74    | 70   | 59   | 56       |
| 88   | -          | 1    | 20         | 47   |      | 44   | 20   | 20   | 20   | 47   | 55   | 53    | 76     | 72    | 80   | 78    | 81   | 75  | 77   | 7.1  | 72    | 68   | 09   | 58       |
| 1.2  | 1          | ı    | 20         | 47   |      | 44   | 20   | 50   | 20   | 49   | 57   | 54    | 73     | 68    | 81   | 77    | 82   | 92  | 77   | 72   | ı     | ,    | 1    | 1        |
| 28   | 8          | 44   | 49         | 44   |      | 46   | 20   | 47   | 20   | 48   | 26   | 56    | 20     | 68    | 82   | 76    | 82   | 92  | 78   | 72   | 1     | ı    | ı    |          |
| 53   | 47         | 43   | 48         | 45   |      | 42   |      |      | 52   | 50   | 58   | 56    | 71     | 68    | 80   | 74    | 82   | 75  | 75   | 72   | ı     | 1    | ı    | 1        |
| 8    | <b>4</b> 9 | 45   | 47         | 40   | 45   | 44   |      |      | 64   | 46   | 59   | 56    | 7.1    | 68    | 81   | 73    | 82   | 92  | 77   | 7.1  | ı     | 1    | ı    | ı        |
| 27   |            |      | 45         | 39   | i    | 40   |      |      | 47   | 45   |      |       | 69     | 99    |      |       | 82   | 75  | 76   | 70   |       |      |      | ı        |
| AV.  | 49.4       | 46.3 | 47.9       | 44,3 | 43.7 | 38.7 | 48.3 | 45.5 | 48.8 | 46.5 | 52.5 | 50.44 | 2      | 63.h  | 72.1 | 67.19 | 81.5 | 74. | 79.2 | 73.0 | 73 B  | 0 89 | GZ G | 60.0     |
|      |            |      |            |      | ı    | ı    |      |      |      |      |      |       | 1      |       |      |       | ١ш   |     |      |      | 1     | -    |      | - Terror |

TABLE 52

Hand thermometer readings taken on north bank of Feather River at Oroville, Butte County, California Sec. 8, T. 19 N., R. 4 E., Mt. Diablo B. & M.

|      |        |          |        | Tomb   | Tomporaturo, 1 | in dogroos | Fahronhoit, | , 1946                      |        |           |        |        |
|------|--------|----------|--------|--------|----------------|------------|-------------|-----------------------------|--------|-----------|--------|--------|
|      | Jane   | Fcb.     | Mar.   | Apr.   | May            | Juno       | July        | Aug                         | Sopt.  | Oato      | Nov.   | Doge   |
| Dato | 8 A.M. | 8 A.M.   | 8 A.M. | 8 A.M. | 8 A.M.         | 8 A.M.     | 8 A.W.      | 8 A.M.                      | 8 A.M. | 8 A.W.    | 8 A.M. | S A.W. |
| -    | 1      | 38       | 45     |        | 54             |            | -           |                             |        |           |        |        |
| cs.  | 45     | 1        | 45     | 1      | 55             | 1          | 70          | 68                          | ı      | 61        | 48     | 1      |
| 97   | 45     | ı        | 44     | ,      | 55             | 1          | 70          | ,                           | 67     | 228       | 48     | 8      |
| 4    | 45     | 1        | 43     | ,      | ,              | 64         | 1           | 1                           | ,      | 09        | 46     | •      |
| 2    | 45     | 40       | 43     | 52     | ı              | 58         | 1           | 68                          | 65     | 57        | 49     | ı      |
| 60   | ı      | 40       | 47     |        | 58             | 62         | ,           | 68                          | 64     | 23        | 47     | 1      |
| 2    | 24     | 41       | 47     | ,      | 58             | 59         | ,           | 69                          | 1      | 57        | 46     | 1      |
| 00   | 42     | 40       | 47     | 49     | 57             | 61         | 73          | 69                          | ı      | 57        | 47     | ı      |
| თ    | ı      | 40       | ı      | 48     | 58             | 09         | な           | 69                          | 68     | 56        | 48     | •      |
| 10   | 1      | ı        | 1      | 48     | 58             | 62         | L<br>L      | ŧ.                          | 68     | 57        | 46     | •      |
| 7    | 41     | 40       | 47     | 22     | 59             | 62         | 73          | ı                           | 67     | 57        | 848    |        |
| 75   | 1      | 88<br>88 | 46     | E<br>E | 1              | 62         | 7.1         | 70                          | 67     | 57        | 45     | 1      |
| 13   | 1      | 38       | 46     | 54     | 58             | 1          | 1           | ı                           | 1      | 57        | 45     | 1      |
| 14   | 40     | 38       | 44     | 1      | 58             | ı          | ı           | 68                          | ı      | 58        | 45     |        |
| 15   | 40     | 40       | 45     | 54     | ı              | 1          | 67          | 69                          | 65     | 57        | 46     | ı      |
| 36   | ı      | 42       | 45     | 55     | 1              | ı          | 68          | 1                           | 54     | 56        | 47     |        |
| 17   | 40     | 1        | 1      | 56     | 58             | ı          | 68          | ı                           | 64     | 55        | 46     |        |
| 18   | 41     | 42       | 48     | 55     | 1              | 68         | 69          | t                           | 64     | 53        | 48     | 8      |
| 19   | 40     | 25       | 48     | 53     | ,              | 99         | 69          | 68                          | 1      | 54        | 48     | 1      |
| 02   | 1      | 42       | 46     | 52     | 61             | 67         | 1           | 69                          | 63     | 53        | 1      | à      |
| 23   | 41     | 4.3      | 1      | 1      | 58             | 65         | ò           | 69                          | 63     | 54        | ı      | 47     |
| 22   | 41     | 44       | 46     | 1      | 56             | 63         | 73          | 69                          | 64     | 55        | 1      | 43     |
| 200  | 42     | ı        | ı      | 55     | 56             | 64         | 73          | 69                          | 64     | 55        | 1      | 43     |
| 54   | হু!    | 44       | 1      | 55     | 56             | 63         | 73          | 1                           | 64     | 55        | 1      | 45     |
| 52   | 45     | 45       | ı      | 55     | 56             | 63         | 73          | ı                           | 64     | 57        | 1      | 46     |
| 98   | 1      | 77       | 52     | 53     | 56             | 67         | ,           | 69                          | 64     | 55        | ı      | 46     |
| 27   | 1      | 45       | 20     | 1      | 56             | 67         | ı           | 69                          | 64     | 53        | 1      | 47     |
| 82   | 41     | 46       | 20     | 1      | 58             | 67         | 1           | 68                          | 64     | 53        |        | 45     |
| 623  | OF:    |          | 46     | 55     | 1              | 1          | 70          | 67                          | 64     | 53        | ı      | 42     |
| 200  | 39     |          | ı      | 55     | 1              | ı          | T<br>L      | 29                          | 64     | 1         | ı      | 41     |
| 31   | 38     |          | 1      |        | 1              |            | 70          | 1                           |        | 48        |        | 39     |
| Av.  | 41.8   | 41.5     | 46.4   | 52.9   | 57.1           | 63.5       | 70.6        | 68.5                        | 64.8   | 55.9      | 46.9   | 43.4   |
|      |        |          |        |        |                |            |             | provide and a second second |        | 2007.7000 | 1      |        |

Temporatures taken one mile south of Yuba City, Sutter County, California Sec. 20, T. 15 N., R. 3 E., Mt. Diablo B. & M.

|  | The   | Maxilian  | -  | 1  | 1  | 1  | 47 46  |    |    |    | 47 45 |    |  |     | 45 45 |    |    | 45 43 |       | 43 42 |    |    |    |    | 45 44 |    |    |    |    |       |    | 45 42 |    |           |
|--|-------|-----------|----|----|----|----|--------|----|----|----|-------|----|--|-----|-------|----|----|-------|-------|-------|----|----|----|----|-------|----|----|----|----|-------|----|-------|----|-----------|
|  | Nov   | מנין צפון | ľ  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1     | 1  | 1  | 1   | 48 47 |    |    |       | 50 49 | 51 50 |    | 1  | 1  | 1  | 1     | 1  | 1  | 1  |    | 47 50 |    | 1     |    | 49.0 48.0 |
|  | Onte  |           |    |    |    |    |        |    |    |    |       |    |  |     |       |    |    |       |       |       |    |    |    |    |       |    |    |    |    |       |    |       |    |           |
|  | Sopt. |           |    |    |    |    |        |    |    |    |       |    |  |     |       |    |    |       |       |       |    |    |    |    |       |    |    |    |    |       |    |       |    |           |
| 19 46                                    | Aug   |           |    |    |    |    |        |    |    |    |       |    |  |     |       |    |    |       |       |       |    |    |    |    |       |    |    |    |    |       |    |       |    |           |
| Fahronheit                               | July  |           |    |    |    |    |        |    |    |    |       |    |  |     |       |    |    |       |       |       |    |    |    |    |       |    |    |    |    |       |    |       |    |           |
| n degroos                                | Junc  | 8 A M     | 64 | 65 | 99 | 29 | 65     | 65 | 65 | 65 | 64    | ₹9 | 61   | 1   | 1     | į, | 1  | 1     | ı     | 1     | 1  | 1  | ,  | 1  | 1     | 1  | 1  |    |    | ,     | t, | I,    |    | 9**9      |
| Tomporature, in degrees Fahrenheit, 1946 | May   | S & B     | 55 | 55 | 56 | 57 | 88     | 58 | 59 | 58 | 57    | 58 | 59   | 58  | 58    | 58 | 28 | 58    | 09    | 19    | 62 | 63 | 62 | 09 | 57    | 57 | 59 | 59 | 09 | 09    | 61 | 63    | 63 | 58.9      |
| Tomp                                     | Apr.  | 8 A W.    | 49 | 49 | 48 | 49 | 48     | 52 | 49 | 51 | 20    | 51 | 51   | 52  | 54    | 55 | 55 | 55    | 55    | 55    | 53 | 53 | 53 | 53 | 54    | 56 | 22 | 56 | 55 | 55    | 56 | 55    |    | 52.8      |
|  | Mare  | B A.M.    | 1  | 1  | ,  | ı  | 1      | ı  | 1  | 1  | 1     | 1  | 1  | ı   | 20    | 47 | 46 | 46    | 47    | 47    | 67 | 48 | 48 | 48 | 49    | 49 | 51 | 20 | 52 | 52    | 50 | 1     | 46 | 48.6      |
|  | Fobe  |           |    |    |    |    |        |    |    |    |       |    | de la constante de la constant |     |       |    |    |       |       |       |    |    |    |    |       |    |    |    |    |       |    |       |    |           |
|  | Jan.  | 3         |    | -  |    |    |        | -  | -  |    |       |    |  |     |       |    |    |       |       |       |    |    |    |    |       |    |    |    |    |       |    |       |    |           |
|  |       | Bato      | 7  | രാ | 60 | 4  | s<br>S | 9  | 7  | 80 | 6     | 10 | 11   | 122 | 13    | 14 | 15 | 16    | 17    | 18    | 19 | 20 | 23 | 22 | 23    | 24 | 22 | 56 | 27 | 28    | 29 | 30    | 31 | Av.       |

From : anch through June, readings were made with a hand thermometer; from November through December, thermograph recordings were used.

Yube City California River at mile south of Yuba City, Sutter County, & M. Diable B. Feather Daily Maximum and Minimum Water Temperatures, Thermograph located one mile south of Yuba City Mt. pa . 3 Ŗ N. 15 E-4 20. Sec.

Daily Maximum and Minhmum Water Temperatures, Feather River at Nicolaus Thermograph located one mile southwest of Nicolaus, Yuba County, California Sec. 12, T. 12 H., R. 'S E., Lt. Jablo B. & W.

Tomporaturo, in dogrees Fahronhoit, 1946 and 1947

| Jan.         Feb.         Mar.         Apr.         Apr. <th< th=""><th>50 53 51 67 63 69 64</th><th>53 51 69 65 69 65</th><th>53 52 68 65 71 64 -</th><th>63 51 67 64 69 6A</th><th>51 68 64 70 65</th><th>52 65 64 67 65</th><th>53 67 64 69 55 -</th><th>52 66 63 69 65</th><th>53 66 63 67 64</th><th>64 60 69 65</th><th>68 51 68 64</th><th>66 60 73 64</th><th>67 60 76 67</th><th>70 61 79 70 -</th><th>73 63 80 71 85 -</th><th>75 65 76 69 85 72</th><th>75 67 78 71 85 72</th><th>75 67 81 73 88 74</th><th>77 69 82 77 91 77</th><th>78 77 73 65 85 75</th><th>77 70 73 69 81 70</th><th>74 68 82 71 82 69</th><th>74 67 87 72 83 71</th><th>76 70 87 69 81 73</th><th>68 67 - 80 72</th><th>59 72 56 1 1 855 74</th><th>59 73 67 86 76</th><th>62 68 67</th></th<> | 50 53 51 67 63 69 64 | 53 51 69 65 69 65 | 53 52 68 65 71 64 - | 63 51 67 64 69 6A | 51 68 64 70 65 | 52 65 64 67 65 | 53 67 64 69 55 - | 52 66 63 69 65 | 53 66 63 67 64   | 64 60 69 65 | 68 51 68 64 | 66 60 73 64 | 67 60 76 67 | 70 61 79 70 - | 73 63 80 71 85 - | 75 65 76 69 85 72 | 75 67 78 71 85 72 | 75 67 81 73 88 74 | 77 69 82 77 91 77 | 78 77 73 65 85 75 | 77 70 73 69 81 70 | 74 68 82 71 82 69 | 74 67 87 72 83 71 | 76 70 87 69 81 73 | 68 67 - 80 72  | 59 72 56 1 1 855 74 | 59 73 67 86 76 | 62 68 67 |
|--|----------------------|-------------------|---------------------|-------------------|----------------|----------------|------------------|----------------|------------------|-------------|-------------|-------------|-------------|---------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|---------------------|----------------|----------|
| Min.         Heb.         Mar.         Apr.         Lay         June           Min.         Max.         Min.         Min  | 50 53 51 67 63 69 64 | 53 51 69 65 69    | 53 52 68 65 71      | 53 51 67 64 69    | 51 68 64 70    | 52 66 64 67    | 53 67 64 69      | 52 66 63 69    | 53 66 63 67      | 64 60 69    | 68 51 68    | 66 60 73    | 67 60 76    | 70 61 79 70   | 73 63 80 71      | 75 65 76 69       | 75 67 78 71       | 75 67 81 73       | 77 69 82 77       | 78 77 73 65       | 77 70 78 69       | 74 68 82 71       | 74 67 87 72       | 76 70 87 69       | 88 87          | 59 72 56            | 59 73 67       | 62 68 67 |
| 147  Jen. Feb. Mar. Apr. Lay June  Min. Eax. Min. Max. Min. Max. Min. Max. Min. Eax. Min. Eax. Min. Max. Min. Min. Max. Min. Min. Max. Min. Min. Min. Min. Min. Min. Min. Min  | 50 53 51 67 63 69    | 53 51 69 65 69    | 53 52 68 65 71      | 53 51 67 64 69    | 51 68 64 70    | 52 66 64 67    | 53 67 64 69      | 52 66 63 69    | 53 66 63 67      | 64 60 69    | 68 51 68    | 66 60 73    | 67 60 76    | 70 61 79      | 73 63 80         | 75 65 76          | 75 67 78          | 75 67 81          | 77 69 82          | 78 77 73          | 77 70 73          | 74 68 82          | 74 67 87          | 76 70 87          | 58<br>57<br>57 | 59 72               | 59 73          | 62 68    |
| Jen.         Feb.         Mar.         Apr.         Lay           Min.         Max.         Min.         Max.         Min.         Max.         Min.         Max.         Min.         Max.         Min.         Max.         Min.         Min  | 50 53 51 67          | 53 51 69          | 53 52 68            | 53 51 67          | 51 68          | 55 69          | 53 67            | 52 66          | 53 66            | 64          | 68          | 99          | 67          | 70            | 73               | 75                | 7.5               | 75                | 77                | 28                | 77                | 24                | 74                | 76                | 99 88<br>88    | 59 72               | 59 73          | 62 68    |
| 147  Jen. Feb. Mar. Apr.  Min. Eax. Min. Max. Min. Mex. I  42 47 41 50 50 53   | 50 53                | 22 0              | 53                  | 53                |                |                |                  |                |                  | 53          | 54          | 54          | 57          | 58            | 59               | 59                | 59                | ന (               | 0 0               |                   | 7                 | 8                 | 233               | 500               | 000            |                     |                |          |
| 147<br>Jen. Heb. Mar. Min. Ma. 42 47 41 50 50 5  | 50                   |                   |                     | -                 | ည်             | က်             | 10               |                | 5                | ~           | 2           | 0           |             |               | _                |                   |                   |                   |                   |                   |                   |                   |                   | 07.5              | -1 10          | ) -1                | 2 0-2          |          |
| 147 Jen. Feb. Max. Min. Eax. Min. Max. 42 47 41 50   | 4                    |                   |                     | 50                | 48             | 47             |                  | -              | -                | _           | -           | -           | -           | _             | _                | -                 | _                 |                   |                   |                   |                   |                   |                   |                   |                |                     | _              | -        |
| 147  | 50                   | 52                |                     |                   |                |                |                  |                |                  |             |             |             |             |               |                  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                |                     |                |          |
| Jon<br>Min.  | 4                    | - 0-              | 48 40               | $\infty$          | <b>ω</b>       | 9              | 2                | 9              |                  |             | 4,          |             | -54         |               |                  |                   |                   | 50 49             |                   |                   |                   |                   | 53 51             |                   |                |                     |                |          |
| 19<br>A 24<br>A 9  | +                    |                   | 38                  | -                 |                | -              | -                | -              | -                | 39          |             | _           | 39          | 1             | 1                | 1                 | 1                 | 1                 | 1 1               | ı                 | 1                 | 1                 | 1                 | ŭ                 |                |                     | 7              | 42       |
| 1 - 3  | 49                   | _                 | -                   |                   | -              | -              |                  | 41,            | ₹1               | A1          | 41          | Zi.         | -           | 1             | 1                | ı                 | 1                 | ı                 | 1 1               | 1                 | 1                 | 1                 | 1                 | 1 0               | 56             | 47                  | 46             | 46       |
| Dec.   | 1                    | 4 41              | 48 47               | 1                 | 49 49          | 6              | ω :              | တ္             | <b>चा</b><br>ळ ा |             |             | မ           | (D          | 9             | 46 44            | S 1               | ر<br>د            | 44 57             | 42 37             | 2 23              | 41                | 46 45             | - 45              | 1                 | 1 1            | 1                   | 1              | 1        |
| Nov.   | -                    | 1                 | 1                   | 1                 | •              | '              | 1                | ı              | 1                | 1           |             | ı           | 1           | 1             | ı                | 1 .               | 1                 | 1                 | 1 1               | ,                 | *41               | 41                |                   | 48 47             | H 41           | 4,                  |                | 0,1      |

Paristrant located at Laruerre Foint Lar, ton miles northeast of Earysville, Yuba County, California Sec. 31, T. 16 No., R. 5 E., Mt. Diablo 3. & M.

| Tomperature, in degrees Fahronheit, 1946 Apr. May June July Aug. Sont Oct Nor | A. C. | T. T. T. | 24 | 56 |   |   |   |   |   |   |   |   |   | 522 | 63 55 | 55 | 61 54 | 61 56 | 61 55 | 19 | 1 | 52 | 60 53 | 60 53 | 59 53 | 60 52 | 59 53 | 59 52 | 53 52 | 57 52 | 1 |
|---|---|----------|----|----|---|---|---|---|---|---|---|---|---|-----|-------|----|-------|-------|-------|----|---|----|-------|-------|-------|-------|-------|-------|-------|-------|---|
|   |   | -        |    | -  | _ | _ | _ |   | _ |   |   | , |   | _   | _     | _  | _     |       |       | _  |   |    | _     | _     | -     | _     |       |       |       |       |   |
|   |   |          |    | _  |   |   |   |   |   |   |   |   |   |     |       |    | -     |       |       |    |   | _  |       |       |       |       |       |       |       |       |   |
|   |   |          |    |    |   |   |   |   |   |   |   |   |   |     |       |    |       |       |       |    |   |    |       |       |       |       |       |       |       |       |   |
|   |   |          |    |    |   |   |   |   |   |   |   |   |   |     |       |    |       |       |       |    |   |    |       |       |       |       |       |       |       |       |   |
| Tomp<br>Apr.  |   |          |    |    |   |   |   | _ |   | - |   |   |   |     |       |    |       |       |       |    |   |    |       | _     |       |       |       |       |       |       |   |
| Mar   |   |          |    |    |   |   |   |   | - | _ | _ |   |   |     |       |    |       |       |       |    | _ |    |       |       |       |       |       |       |       | _     |   |
| Fob   |   |          |    |    | _ |   | - | _ |   |   | - |   |   | -   |       |    |       |       |       |    |   |    | _     |       |       | _     |       |       |       |       | + |
| Jane  |   |          | _  |    |   |   | _ |   |   |   | - |   | • |     |       |    |       |       |       | _  | _ | -  |       |       | _     | _     | _     | •     |       |       |   |

Daily Maximum and Minimum Water Temperatures, Yuba River at Daguerre Point
Thermograph located at Daguerre Point Dam, ten miles northeast of Marysville, Yuba County, California
Sec. 31, T. 16 N., R. 5 E., Mt. Diablo B. & M.

Tomnomitmen in docume Pohnonhot + 10 47

|              | Pro   | 1       |           |    |    |     |      |     |     |     |    |    |          |    |     |     |     |     |    |    |    |     |         |     |       |            |            |  |     |      |     |    |    |         |
|--------------|-------|---------|-----------|----|----|-----|------|-----|-----|-----|----|----|----------|----|-----|-----|-----|-----|----|----|----|-----|---------|-----|-------|------------|------------|--|-----|------|-----|----|----|---------|
|              |       | Min     | 27        | 56 | 99 | 24  | 99   | 55  | 55  | 55  | 40 | 75 | 55       | 4  | 33  | 53  | 70  | *   | 4  | 2  | 2  | E E | <u></u> | 0   | 9     | 50         | 50         | 51   | 51  | 63   | 22  | 23 |    | 33      |
|              | Non   | 1.      |           |    |    |     |      |     |     |     |    |    |          |    |     |     |     |     |    |    |    |     |         |     |       |            |            |  |     |      |     |    |    | 8 53    |
|              | N     | 2       | L         | 58 | 2  | 55  | 5    | 2   | 5   | 5   | 56 | 56 | 56       | 55 | 55  | 5.5 | 2   | 55  | 55 | 5  | 2  | 53  | 22      | 5   | 5     | 52         | 22         | 53   | 53  | 54   | 54  | 5. |    | 3 54    |
|              | Oct   | Min     |           | 68 | 68 | 69  | 68   | 67  | 67  | 65  | 84 | 64 | 64       | 64 | 65  | 64  | 65  | 65  | 63 | 62 | 62 | 62  | 62      | 61  | 60    | 60         | 60         | 60   | 9   | 09   | 59  | 58 | 59 | 63.3    |
|              | Ö     | Max.    | 20        | 70 | 70 | 70  | 70   | 68  | 68  | 67  | 67 | 65 | 65       | 65 | 99  | 67  | 99  | 65  | 65 | 65 | 65 | 64  | 63      | 63  | 62    | 62         | 63         | 63   | 62  | 61   | 9   | 9  | 61 | 65.1    |
| ı            |       | in      | ₩-        | 72 | 7  | 7   | 7.1  | だ   | 70  | 70  | 70 | 70 | 70       | 70 | 2   | て   | 711 | 7.1 | 68 | 68 | 67 | 68  | 68      | 70  | 70    | 70         | 70         | 69   | 69  | 69   | 69  | 68 |    | 8.69    |
|              | Sopt. | Max     |           | 75 | 76 | 75  | 75   | 73  | 72  | 73  | 73 | 74 | 74       | 74 | 7.4 | 14  | 74  | 72  | 2  | 7  | 17 | 20  | 7       | 73  | 74    | 73         | 73         | 72   | 72  | 17   | 22  | 1  | ı  | ω       |
|              | _     | A       |           | 69 |    |     |      |     |     |     |    |    |          |    |     |     |     |     |    |    |    |     |         |     | -     |            |            | (Spring)   | -6- | -    | -   | _  | 0  | 69.9 72 |
| 9 47         | Aug   |         |           |    |    |     |      |     |     |     |    | 2  | 7        | 2  |     |     |     |     |    |    |    |     |         |     |       |            | 20         |  |     | 70   |     |    |    | M       |
| t, 19        |       | Man     | 7.2       | 73 | 72 | 7.2 | 7.4  | 7.8 | 7.5 | 73  | 72 | 73 | 74       | 74 | 75  | 74  | 74  | 74  | 74 | 76 | 74 | 73  | 72      | F-  | 50    | C-0        | P          | The state of the s | 73  | 7.30 | 73  | 73 | 73 | 73.     |
| rahronhoit,  | ٨     | Min.    | <b>64</b> | 64 | 63 | 99  | 65   | 99  | 65  | 65  | 65 | 65 | 65       | 99 | 68  | 89  | 89  | 67  | 67 | 67 | 67 | 69  | 69      | 89  | 68    | 68         | 68         | 68   | 69  | 20   | 70  | 69 | 69 | 66.9    |
| ahro         | Jul   | ax.     | 73        | 71 | 69 | 69  | 69   | 69  | 20  | 69  | 20 | 69 | 70       | 10 | 20  | 72  | 77  | 72  | 77 | 72 | 72 | 17  | 72      | 7.1 | 72    | 72         | 7.1        | 7.1  | 72  | 74   | 73  | 72 | 73 | 71.0    |
| - 1          | 0     | Min. M  |           | 60 | -  | _   |      | _   |     | 61  | -  | -  | -        |    | 63  | -   | -   | -   | 63 |    |    | -   | -       |     |       | overalling | 65         |  |     |      | 64  | _  |    | 62.4    |
| dog roos     | Jun   |         |           |    |    |     |      |     |     |     |    |    |          |    |     |     |     |     |    |    |    |     |         |     |       |            |            |  |     |      | 9 6 |    | ı  | 67.1 6  |
| 5            |       | E       | -         | 62 | -  | -   | -    | -   | -   | -   |    |    |          | -  | -   | -   | -   | 67  |    | -  | -  |     |         |     | 69    | 20         | 73         | 70   | 70  | 69   | 9   | 7  |    | 8 6     |
| curo         | AU    | . Min   | 56        | 56 | 57 | 57  | 57   | 57  | 57  | 55  | 26 | 56 | 57       | 56 | 56  | 56  | 57  | 58  | 58 | 58 | 29 | 58  | 09      | 29  | 9     | 59         | 9          | 09   | 59  | 29   | 59  | 59 | 59 | .0 57   |
| iomporaturo, |       | Max     | 9         | 19 | 61 | 19  | 62   | 9   | 61  | 09  | 9  | 9  | 61       | 9  | 61  | 62  | 62  | 62  | 63 | 64 | 64 | 65  | 65      | 64  | 64    | 64         | 65         | 62   | 61  | 63   | 63  | 61 | 09 | 62.     |
| TOW          |       | Min.    | 51        | 20 | 20 | 20  | 21   | 2   | 52  | 51  | 21 | 27 | 52       | 53 | 53  | 53  | 54  | 54  | 54 | 54 | 54 | 22  | 54      | 54  | 53    | 53         | 54         | 54   | 54  | 54   | 22  | 22 |    | 52.8    |
|              | Ap    | Max. Mi | 54        | 52 | 52 | 52  | 53   | 54  | 53  | 53  | 54 | 55 | 22       | 22 | 57  | 24  | 28  | 24  | 22 | 24 | 28 | 28  | 58      | 24  | 22    | 28         | 58         | 58   | 24  | 22   | 29  | 09 |    | 56.0    |
| ŀ            |       | 10      | 81        | 48 | 81 | 67  | 1.7  | 47  | 47  | 47  | 49 | 61 | 20       | 49 | 49  | 49  | 0   | 0   | 0  |    | 0  | 0   |         |     | 20    | 9          | 51         | 당  | 52  | 23   |     | 51 |    | 9       |
|              | Mar   |         |           |    |    |     |      |     |     |     |    |    |          |    |     |     |     |     |    |    |    |     |         |     |       |            |            |  |     |      |     | 3  |    | .7 49   |
| -            |       |         |           | 20 |    |     | _    | -   |     | 20  | -  | -  | (2)      | ट  | 52  | Š.  | 22  | ໝໍ  | വ  | 2  | 2  | 53  | Ω.      | Ω.  | 53    | 20         | 2          | ເລ   | 2   |      | 2   |    | 5. | 3 51    |
|              | Fob   |         | 45        | 46 | 45 | 46  | 46   | 46  | 46  | 46  | 46 | 47 | 48       | 20 | 49  | 48  | 47  | 47  | 47 | 47 | 48 | 47  | 48      | 47  | 40    | 48         | 49         | 20   | 49  | 48   |     |    |    | 47.     |
|              | Ğ     | Max.    | 48        | 48 | 48 | 48  | 47   | 47  | 47  | 47  | 47 | 49 | 20       | 53 | 20  | 49  | 49  | 49  | 20 | 49 | 20 | 20  | 2       | 20  | 20    | Z<br>Z     | r<br>S     | 49   | 20  | 20   |     |    |    | 49.1    |
|              |       | and     | 48        | 47 | 47 | 46  | 47   | 46  | 45  | #   | #  | 44 | #        | 77 | 77  | 77  | 43  | 43  | 7  | 43 | 44 | 77  | 45      | 44  | A. 55 | 46         | 46         | 47   | 47  | 46   | 44  | 45 | 46 | 45.0    |
|              | Jan   | Max.    | 50        | 49 | 49 | 49  | 47   | 48  | 45  | 45  | 45 | 45 | 4.<br>5. | 44 | 45  | 46  | 47  | 46  | 46 | 46 | 46 | 47  | 47      | 47  | 8     | 8          | <b>4</b> 0 | 49   | 49  | 47   | 47  | 46 | 48 | 6.9     |
| -            |       | 8       |           |    |    | -   |      | _   |     | *** | -  |    | -        |    |     |     |     | -   | -  |    |    |     |         |     |       | uAg-ol     | -          |  | -   | _    | _   |    | +  | 4,      |
|              |       | 8       | -         | N  | 80 | 4   | i Qu | 0   | 2   | 00  | တ  | 10 | 7        | 75 | 13  | 14  | 15  | 18  | 17 | 18 | 19 | 2   | 2       | 22  | 23    | 22         | 25         | 56   | 27  | 28   | 53  | 30 | 3  | A.      |

TABLE 58

Daily Maximum and Minimum Water Temperatures, American River at Folson
Thermograph located at F. G. & E. powerhouse at Folson, Sacramento County, California
Sec. 26, T. 10 N., R. 7 E., Mt. Diablo B. & M.

| Aug. Bopt. | Min Mer. Min   | 80 74 74 71 | 81 75 74 | 72 81 77 75 71 | 81 77 75 | 80 76 74 | 79 75 74 | 79 75 74 | 79 75 73 | 75 73    | 79 75 73 | 79 75 72 | 79 75 72 | 462      |          | 77       | 77       | 77       | 78       | 78       | 74 77 74 | 78 75 72 6 | 78 74 72 6 | 78 74 72 | 78 74 72 6 | 77 74 72 | 3 77 74 72 | 5 77 73 71 | 75 74 72 71 67 | 4 73 70 71 | 70 70    | 4 74 7 | 9 8 9 8 6 0 11 0 77 8 87 |
|------------|----------------|-------------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|----------|------------|----------|------------|------------|----------------|------------|----------|--------|--------------------------|
| Juno July  | Max. Min. Max. | 62 59 76    | 62 59 77 | 62 59 77       | 63 58 78 | 62 59 78 | 62 57 78 | 53 58 77 | 64 59 77 | 64 60 78 | 63 59 78 | 64 60 79 | 65 61 78 | 66 62 77 | 67 63 75 | 67 63 76 | 67 63 76 | 68 63 77 | 69 65 78 | 71 67 79 | 72 68 79 | 72 69 79   | 70 67 79   | 62 99 02 | 71 67 79   | 71 67 78 | 71 67 79   | 72 67 80   | 79             | 74 69 79   | 75 70 79 | 62     | 7 67 4 63 3 78 0         |
| Apr. May   | Max Min Max M  | ı           |          | - 55           |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | - 59     | 4 49 59  | 4 49 56    | 5 49 54    | 5 52 54  | 5 52 56    | 5 51 56  | 5 51 56    | 5 49 56    |                | 5 51 59    | 4 48 61  | 61     | 54.7 50.2 56.5           |
| Fob. Mar.  |                |             |          |                |          |          | _        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |            |            |          |            |          |            |            |                |            |          |        |                          |
| Jan        | Min.           | 48 44       | 50 46    | 50 43          | 1        | 1        | 1        | 1        | '        | 1        | 1        | 1        | ı        | ı        | 1        | 1        | 1        | ı        | 1        | !        | 1        | ı          | ı          | ı        | ı          | 1        | 1          | ı          | 1              | 1          | ı        | 1      | 2 44 2                   |

O)

Daily Maximum and Minimum Water Temperatures, American River at Folsom
Thermograph located at F. G. & E. powerhouse at Folsom, Sacramento County, California
Sec. 26, T. 10 N., R. 7 E., Mt. Diablo B. & M.

| Max.         Min.         Max.         Max. <th< th=""><th>na. Fob. Ma</th><th>Ma</th><th>Ma</th><th>Mar.</th><th></th><th></th><th>占</th><th>Tomporaturo,<br/>May</th><th>- 1</th><th>in dog</th><th>dogroos</th><th>Fahronheit,</th><th>l lost</th><th>19 47<br/>Aug.</th><th>, ,</th><th>Sopt.</th><th>13</th><th>Oot</th><th></th><th>Nov</th><th>Doc</th></th<> | na. Fob. Ma                                       | Ma                                    | Ma                                  | Mar.                        |                      |                  | 占       | Tomporaturo,<br>May | - 1 | in dog | dogroos | Fahronheit, | l lost | 19 47<br>Aug. | , , | Sopt. | 13  | Oot |       | Nov | Doc |
|--|---|---------------------------------------|-------------------------------------|-----------------------------|----------------------|------------------|---------|---------------------|-----|--------|---------|-------------|--------|---------------|-----|-------|-----|-----|-------|-----|-----|
| 66         62         78         73         80         78         77         74         76           65         62         77         73         80         78         77         75         69           64         62         78         73         79         76         77         75         69           64         63         78         73         79         76         77         75         71           65         63         78         73         79         76         77         77         77         77         77         77         77         77         77         77         77         76         77         77         76         77         77         76         77  | . Min. Max. Min, Max, Min. Max. Min, Max.         | x. Pin. Hax. Min. Max. Lin. Hax.      | . Nin. Hax. Min. Max. Lin. Hax.     | . Hin. Max Min Max.         | n. Max. Min. Max.    | Min Nax          | k       | di.                 | Min | . 03   | Lin     | l'n x       | i n    |               | 2   | r     | lin | ĸ   | (fn.) |     |     |
| 65         62         77         73         80         78         77         75         69         66         65         66         62         78         73         79         76         77         74         69         66         65         66         62         78         79         76         77         74         69         66         66         65         78         78         76         70         71         66         66         66         67         78         76         77         76         70         66         66         66         67         78         76         77         76         70         67         66         66         66         66         66         67         78         76         77         76         77         76         77         76         77         76         77         76         77         76         77         76         77<   | 39 44 40 50 49 54 51 61                           | 4 40 50 49 54 51 61                   | 40 50 49 54 51 61                   | 50 49 54 51 61              | 9 54 51 61           | 51 61            |         | CD                  | 2   | 99     | 62      | 78          | 3      | 80            |     | 77    | 74  | 70  | 69    |     |     |
| 65         60         77         71         79         76         77         75         77         75         71           64         62         78         73         79         77         75         75         71           64         63         78         74         79         76         77         75         71           65         63         78         74         79         76         77         75         70           66         63         78         74         79         76         77         75         70           66         63         78         74         79         76         77         76         77         76         77         76         77         77         76         77         77         77         77         77         77         77         77         77         77         77         77         77         77         77         77         77         77         77         74         77         74         77           74         70         80         77         76         77         74         77         77         74         74  | 40 39 45 40 53 50 54 51 63 58                     | 5 40 53 50 54 51 63                   | 40 53 50 54 51 63                   | 53 50 54 51 63              | 0 54 51 63           | 51 63            |         | 2                   | m   | 65     | 62      | 77          | 73     | 80            | 78  | 77    | 75  | 69  | 99    |     |     |
| 64         62         78         73         79         77         77         75         71           64         63         78         73         79         78         78         76         70           65         63         78         74         76         76         77         75         69           65         63         78         74         78         76         77         76         70         64           65         63         78         74         77         76         76         77         65         69           66         63         77         77         77         76         77         78         77         77         77   | 38 45 41 51 47 53 49 62                           | 5 41 51 47 53 49 62                   | 41 51 47 53 49 62                   | 51 47 53 49 62              | 7 53 49 62           | 49 62            |         | 2                   | 0   | 65     | 09      | 77          | 7.1    | 42            | 94  | 77    | 74  | 69  | 67    |     |     |
| 64         63         78         73         79         78         78         75         75         76         77         76         77         76         70         64         65         63         78         74         79         76         77         75         76         77         76         70         64         65         63         77         78         76         77         76         77         76         77         76         77         76         77         76         77<   | 37 45 42 50 47 52 47 62                           | 5 42 50 47 52 47 62                   | 42   50 47   52 47 62               | 50 47 52 47 62              | 7 52 47 62           | 47 62            |         | Ŋ                   | 8   | 64     | 62      | 78          | 73     | 79            | 77  | 77    | 75  | 7.1 | 69    |     |     |
| 65         63         78         74         80         78         76         77         75         69           66         63         78         74         79         76         77         75         69           66         62         78         74         78         77         76         77         65           68         63         77         73         77         76         76         77         64           68         63         77         73         76         76         77         76         77         76         77  | 37 45 42 50 45 53 48 62                           | 5 42 50 45 53 48 62                   | 42 50 45 53 48 62                   | 50 45 53 48 62              | 53 48 62             | 48 62            |         | 58                  | ~   | 64     | 63      | 78          | 73     | 43            | 78  | 78    | 75  | 7.1 | 70    |     |     |
| 66         63         78         74         79         76         77         75         65           65         63         78         74         78         76         76         76         64           68         63         77         73         77         76         76         77         64           68         64         78         73         77         76         76         77         76         76         77 <th>37 44 43 49 45 54 49 61</th> <td>43 49 45 54 49 61</td> <td>43 49 45 54 49 61</td> <td>49 45 54 49 61</td> <td>54 49 61</td> <td>49 61</td> <td></td> <td>55</td> <td>8</td> <td>65</td> <td>63</td> <td>78</td> <td>74</td> <td>80</td> <td>78</td> <td>78</td> <td>92</td> <td>70</td> <td>99</td> <td></td> <td></td>  | 37 44 43 49 45 54 49 61                           | 43 49 45 54 49 61                     | 43 49 45 54 49 61                   | 49 45 54 49 61              | 54 49 61             | 49 61            |         | 55                  | 8   | 65     | 63      | 78          | 74     | 80            | 78  | 78    | 92  | 70  | 99    |     |     |
| 65         63         78         74         78         76         76         71         64           68         63         77         73         77         75         76         70         64           68         63         77         73         77         75         76         72         -           70         65         79         75         78         75         76         74         -           72         67         79         75         77         75         76         77  | 38 44 43 49 45 55 50 61                           | 4 43 49 45 55 50 61                   | 43 49 45 55 50 61                   | 49 45 55 50 61              | 55 50 61             | 50 61            |         | 2                   | m   | 99     | 63      | 78          | 74     | 49            | 94  | 27    | 75  | 69  | 65    |     |     |
| 66         62         78         74         78         77         75         76         70         64           68         63         77         73         77         75         76         72         -           70         65         79         75         78         75         76         74         -           74         69         80         77         77         75         76         77         79         76         77         78         76         77         79         76         77         78         76         77   | 37 44 43 50 47 55 50 60                           | 4 43 50 47 55 50 60                   | 43 50 47 55 50 60                   | 50 47 55 50 60              | 55 50 60             | 20 60            |         | 57                  |     | 65     | 63      | 78          | 74     | 78            | 94  | 76    | 71  | 65  | 62    |     |     |
| 68         63         77         73         77         78         76         72         -           68         64         78         75         76         76         74         -           70         65         79         75         77         75         76         74         -           74         70         79         76         77         75         76         75         -           74         71         79         76         77         78         76         77         78         76         77         78         76         77  | 37 46 44 49 47 56 50 61                           | 44 49 47 56 50 61                     | 44 49 47 56 50 61                   | 49 47 56 50 61              | 56 50 61             | 50 61            |         | 57                  |     | 99     | 62      | 78          | 74     | 78            | 77  | 92    | 70  | 64  | 61    |     |     |
| 68         64         78         73         78         75         76         74         -           70         65         79         75         77         75         76         74         -           74         69         80         77         77         75         76         75         -           74         70         79         77         74         77         78         76         77         78         76         77         74         77         74         77         74         77         74         77         74         77         74         77         74         77         74         77         74         77         74         77         74         77  | 37 48 44 51 48 56 50 61                           | 44 51 48 56 50 61                     | 44 51 48 56 50 61                   | 51 48 56 50 61              | 56 50 61             | 50 61            |         | 57                  |     | 68     | 63      | 77          | 73     | 77            | 75  | 92    | 72  | 1   | 1     |     |     |
| 70         65         79         75         78         75         76         74         -           74         69         80         77         77         75         76         75         -           74         70         79         77         78         75         76         75         -           74         71         78         76         77         74         77         73         74         77         74         77         74         77         74         77         74         77         73         76         77         74         77         74         77         73         76         77  | 38 48 44 51 47 58 51                              | 44 51 47 58 51 64                     | 44 51 47 58 51 64                   | 51 47 58 51 64              | 58 51 64             | 51 64            |         | 58                  |     | 68     | 64      | 78          | 73     | 78            | 75  | 94    | 73  | ı   | 1     |     |     |
| 72         67         76         77         75         76         75            74         69         80         77         77         76         75            74         71         78         75         78         75            74         71         77         74         77         73            76         71         76         77         74         77         73            77         72         81         77         78         76         77         77         77         78         61           76         73         81         79         76         77  | 58 50 48 52 47 60 56 62                           | 48 52 47 60 56 62                     | 48 52 47 60 56 62                   | 52 47 60 56 62              | 60 56 62             | 56 62            |         | 59                  |     | 70     | 65      | 43          | 75     | 78            | 75  | 76    | 74  | t   |       |     |     |
| 74         69         80         77         75         76         75            74         70         79         77         78         75         78         75            74         71         79         76         77         74         77         73            76         71         79         77         76         72         71         6           77         72         81         77         78         76         77         72         66           74         73         81         79         76         77         77         74         71         66         61           74         70         81         79         76         71         77         72         73         72         70         71           777273747475757575757  | 38 49 45 53 47 60 56 63                           | 45 53 47 60 56 63                     | 45 53 47 60 56 63                   | 53 47 60 56 63              | 60 56 63             | 56 63            |         | 56                  |     | 72     | 67      | 79          | 76     | 77            | 75  | 77    | 74  |     | 1     |     |     |
| 74         70         79         77         78         75         78         75         -           74         71         79         76         77         74         77         73         -           76         71         79         77         79         77         72         68         -           77         72         81         77         79         77         70         65         61           74         70         81         79         76         77         71         66         61           74         70         81         79         76         77         74         71         60         61           74         70         80         77         76         71         74         71         61         77   | 38 49 45 53 48 60 57                              | 45 53 48 60 57 63                     | 45 53 48 60 57 63                   | 53 48 60 57 63              | 60 57 63             | 57 63            |         | 58                  |     | 74     | 69      | 80          | 77     | 77            | 75  | 94    | 75  | 1   | 1     |     |     |
| 71         79         76         77         74         77         73         -           72         81         77         78         76         72         71         -           73         81         77         80         77         72         66         61           73         81         79         78         75         70         66         61           70         80         77         76         71         74         71         61           72         78         76         77         74         75         75         60           74         78         76         71         75         75         60           74         78         76         74         75         75         60           72         77         75         74         75         75         60           72         79         75         74         74         69         -           72         79         75         75         75         70         -           72         80         77         75         75         77         77         77 <t< td=""><th>37 48 47 54 50 60 57 64</th><td>47 54 50 60 57 64</td><td>47 54 50 60 57 64</td><td>54 50 60 57 64</td><td>60 57 64</td><td>57 64</td><td></td><td>60</td><td></td><td>74</td><td>70</td><td>462</td><td>77</td><td>78</td><td>75</td><td>78</td><td>75</td><td>1</td><td>1</td><td></td><td></td></t<>   | 37 48 47 54 50 60 57 64                           | 47 54 50 60 57 64                     | 47 54 50 60 57 64                   | 54 50 60 57 64              | 60 57 64             | 57 64            |         | 60                  |     | 74     | 70      | 462         | 77     | 78            | 75  | 78    | 75  | 1   | 1     |     |     |
| 71         79         77         78         76         72         71         6           73         81         77         79         77         71         66         61           73         81         79         78         75         70         65         61           70         81         79         76         72         71         66         61           70         80         77         76         71         71         61         61           72         78         76         77         75         75         75         60           74         78         76         77         74         75         60           72         78         76         74         75         75         60           72         77         75         74         74         69         -           72         79         75         75         77         75         77         77           71         80         77         75         75         77         77         77         77         77         77         77         77         77         77  | 36 50 46 55 50 59 57 65                           | 46 55 50 59 57 65                     | 46 55 50 59 57 65                   | 55 50 59 57 65              | 59 57 65             | 57 65            |         | 61                  |     | 74     | 7.1     | 43          | 92     | 77            | 74  | 77    | 73  |     | ,     |     |     |
| 72         81         77         80         77         72         68            73         81         79         77         71         66         61           70         81         79         76         75         71         69         61           70         80         77         76         71         71         69         61           72         78         76         77         73         75         73         60           74         78         76         77         73         75         75         60           72         77         75         74         75         75         60           72         77         77         73         75         75         60           72         77         75         74         75         77         75         70         -           71         80         79         75         72         70         -         -           72         81         79         74         75         71         68         -           73         77         76         73         71 <t< td=""><th>37 50 46 56 51 58 56 66</th><td>46 56 51 58 56 66</td><td>46 56 51 58 56 66</td><td>56 51 58 56 66</td><td>58 56 66</td><td>99 99</td><td></td><td>62</td><td></td><td>16</td><td>17</td><td>43</td><td>77</td><td>78</td><td>192</td><td>72</td><td>7.1</td><td>1</td><td>1</td><td></td><td></td></t<>  | 37 50 46 56 51 58 56 66                           | 46 56 51 58 56 66                     | 46 56 51 58 56 66                   | 56 51 58 56 66              | 58 56 66             | 99 99            |         | 62                  |     | 16     | 17      | 43          | 77     | 78            | 192 | 72    | 7.1 | 1   | 1     |     |     |
| 73         81         77         79         77         71         66         61           70         81         79         78         75         70         65         61           70         80         77         76         71         74         71         69         61           72         78         76         77         73         75         73         61           73         78         76         77         73         75         75         61           72         77         75         74         74         75         75         60           72         77         75         74         74         69         -           72         77         75         75         77         77         75         70         -           71         80         79         75         73         72         70         -           72         81         79         74         75         72         70         -           73         77         76         73         71         69         -           73         77         76 <td< td=""><th>37 50 46 55 53 59 53 66</th><td>46 55 53 59 53 66</td><td>46 55 53 59 53 66</td><td>55 53 59 53 66</td><td>59 53 66</td><td>53 66</td><td></td><td>62</td><td></td><td>77</td><td>72</td><td>81</td><td>77</td><td>80</td><td>77</td><td>72</td><td>68</td><td>1</td><td>-</td><td></td><td></td></td<>   | 37 50 46 55 53 59 53 66                           | 46 55 53 59 53 66                     | 46 55 53 59 53 66                   | 55 53 59 53 66              | 59 53 66             | 53 66            |         | 62                  |     | 77     | 72      | 81          | 77     | 80            | 77  | 72    | 68  | 1   | -     |     |     |
| 73         81         79         78         75         70         65         61           70         80         77         76         71         69         61           72         78         76         71         74         71         61           73         76         77         73         75         73         61           73         78         76         77         74         73         72         60           72         77         75         74         74         69         -         -           72         77         75         75         74         74         69         -           72         79         75         75         73         72         70         -           71         80         79         75         73         72         70         -           72         81         79         74         75         72         70         -           73         80         77         75         72         71         69         -           73         77         76         73         71         69         -  | 36 49 47 54 53 60 57 67                           | 47 54 53 60 57 67                     | 47 54 53 60 57 67                   | 54 53 60 57 67              | 60 57 67             | 57 67            |         | 63                  |     | 78     | 73      | 81          | 77     | 46            | 77  | 7.1   | 99  | 61  | 55    |     |     |
| 70         81         79         76         72         71         69         61           70         80         77         76         71         74         71         61           73         78         76         77         73         75         75         60           74         78         76         76         74         73         72         60           72         77         75         75         74         74         69         -           72         77         75         75         74         74         69         -           72         79         77         75         73         73         71         -           71         80         79         75         73         72         70         -           72         81         79         74         75         72         70         -           73         80         77         75         72         71         69         -           73         76         75         71         69         -         -           79         77         76         75         71  | 36 51 47 57 53 60 58 68                           | 47 57 53 60 58 68                     | 47 57 53 60 58 68                   | 53 60 58 68                 | 60 58 68             | 58 68            |         | 64                  |     | 92     | 73      | 81          | 79     | 78            | 75  | 70    | 65  | 19  | 58    |     |     |
| 70 80 77 76 71 74 71 61<br>72 78 76 77 73 75 75 60<br>74 78 76 77 73 75 75 60<br>72 77 75 75 74 74 69 -<br>72 79 77 75 73 73 71 -<br>71 80 79 75 73 72 70 -<br>72 81 79 75 73 72 68 -<br>73 80 77 75 73 72 68 -<br>73 80 77 75 77 75 70 -<br>73 80 77 75 77 75 70 -<br>73 80 77 75 77 75 77 68 -   | 36 51 47 56 52 59 55 69                           | 47 56 52 59 55 69                     | 47 56 52 59 55 69                   | 52 59 55 69                 | 59 55 69             | 55 69            |         | 64                  |     | 74     | 70      | 81          | 79     | 76            | 72  | 7.1   | 69  | 19  | 59    |     |     |
| 72 78 76 76 71 75 75 61<br>74 78 76 77 73 75 75 60<br>72 77 75 75 74 74 69 -<br>72 79 77 75 73 73 71 -<br>71 80 79 75 73 72 70 -<br>72 81 79 75 73 72 70 -<br>72 81 79 75 73 72 68 -<br>73 80 77 75 75 72 68 -<br>73 70 74 75 77 68 -<br>77 76 77 77 77 77 77 77 77 77 68 -  | 37 51 46 56 54 58 53 69                           | 46 56 54 58 53 69                     | 46 56 54 58 53 69                   | 54 58 53 69                 | 58 53 69             | 53 69            |         | 65                  |     | 16     | 20      | 80          | 77     | 92            | 77  | 74    | 7.1 | 61  | 56    |     |     |
| 73 78 76 77 73 75 75 59<br>74 78 76 76 74 73 72 59<br>72 77 75 75 74 74 69 -<br>71 80 79 75 73 77 75 70<br>72 81 79 75 73 72 70 -<br>72 81 79 75 73 72 70 -<br>73 80 77 75 73 72 68 -<br>73 77 75 77 75 78 79 68 -<br>79 77 76 77 77 77 78 71 69 -   | 38 51 47 56 51 58 51                              | 47 56 51 58 51 70                     | 47 56 51 58 51 70                   | 51 58 51 70                 | 58 51 70             | 51 70            |         | 64                  |     | 77     | 72      | 78          | 76     | 92            | Z Z | 75    | 73  | 19  | 55    |     |     |
| 74 78 76 76 74 73 72 59 72 77 75 75 74 74 69 - 71 80 79 77 75 73 72 70 - 72 81 79 74 75 73 72 70 - 72 81 79 74 75 72 70 - 73 80 77 75 72 72 68 - 73 80 77 75 72 71 69 -  | 40 52 49 54 50 58 52 69                           | 49 54 50 58 52 69                     | 49 54 50 58 52 69                   | 50 58 52 69                 | 58 52 69             | 52 69            |         | 65                  |     | 27     | 73      | 78          | 92     | 27            | 73  | 75    | 73  | 9   | 55    |     |     |
| 72 77 75 75 74 74 69 72 79 77 75 73 73 71 71 80 79 75 73 72 70 72 81 79 74 75 75 72 68 73 80 77 75 72 71 69 67.9 78.8 75.6 77.4 75.0 74.8 71.9 65.1  | 41 53 49 54 49 59 55 70                           | 49 54 49 59 55 70                     | 49 54 49 59 55 70                   | 49 59 55 70                 | 59 55 70             | 55 70            |         | 99                  |     | 77     | 74      | 78          | 92     | 76            |     | 73    | 72  | 59  | 54    |     |     |
| 72 79 77 75 73 73 71 -<br>71 80 79 75 73 72 70 -<br>72 81 79 74 75 72 68 -<br>73 80 77 75 72 71 69 -<br>67.9 78.8 75.6 77.4 75.0 74.8 71.9 65.1  | 43 52 50 56 50 60 56 69                           | 50 56 50 60 56 69                     | 50 56 50 60 56 69                   | 50 60 56 69                 | 60 56 69             | 69 99            |         | 67                  |     | 94     | 72      | 77          | 75     | 75            | 74  | 74    | 69  |     | 1     |     |     |
| 71 80 79 75 73 72 70 - 72 72 70 - 72 73 80 77 75 72 72 68 - 72 72 72 72 72 72 72 72 72 72 72 72 72   | 42 51 49 56 54 59 57 66 6                         | 49 56 54 59 57 66 6                   | 49 56 54 59 57 66 6                 | 54 59 57 66 6               | 59 57 66 6           | 57 66 6          | 9       | ₽9                  |     | 78     | 72      | 46          | 77     | 75            | 73  | 73    | 7.1 | ı   | 1     |     |     |
| 72 81 79 74 75 72 68 -<br>73 80 77 75 72 71 69 -<br>67.9 78.8 75.6 77.4 75.0 74.8 71.9 65.1  | 40 51 47 57 55 60 54 66 6                         | 47 57 55 60 54 66 6                   | 47 57 55 60 54 66 6                 | 55 60 54 66 6               | 60 54 66 6           | 54 66 6          | 9       | 63                  |     | 77     | 7.1     | 80          | 46     | 75            |     | 72    | 70  | 1   | ,     |     |     |
| 78 73 80 77 75 72 71 69 -<br>79 77 76 73 -<br>72.0 67.9 78.8 75.6 77.4 75.0 74.8 71.9 65.1   | 39 55 54 60                                       | 54 60 57 67 6                         | 54 60 57 67 6                       | 54 60 57 67 6               | 60 57 67 6           | 57 67 6          | 9       | 64                  |     | 77     |         | 81          | 79     | 74            |     | 72    | 68  | 8   |       |     |     |
| 72.0 67.9 78.8 75.6 77.4 75.0 74.8 71.9 65.1   | 39 54 52 60 56 66 6                               | 52 60 56 66 6                         | 52 60 56 66 6                       | 52 60 56 66 6               | 60 56 66 6           | 56 66 6          | 9       | 65                  |     | 78     |         | 80          | 77     | 75            |     | 71    | 69  | 1   |       |     |     |
| 72.0 67.9 78.8 75.6 77.4 75.0 74.8 71.9 65.1   | 40 54 49 64 6                                     | 49 64 6                               | 49 64 6                             | 49 64 6                     | 64. 6                | 4. 6             | 4. 6    | 63                  |     |        |         | 79          | 77     |               |     |       |     | 1   | 1     |     |     |
|  | 40.3 38.1 47.4 45.2 53.2 49.6 57.6 53.3 64.7 61.0 | 47.4 45.2 53.2 49.6 57.6 53.3 64.7 61 | .4 45.2 53.2 49.6 57.6 53.3 64.7 61 | 53.2 49.6 57.6 53.3 64.7 61 | .6 57.6 53.3 64.7 61 | 7.6 53.3 64.7 61 | 64.7 61 | 61.0                |     | 72.0   | 6       | 88          | 5.6    | 4             | 5.0 | 4.8   | 6   |     | 1.7   |     |     |

Daily Maximum and Minimum Water Temperatures, American River at Eacramento Thermograph located at H. St. Bridge, at east end of H. St., Sacramento, Sacramento County, Calif. Sec. 1, T. 8N., R.5E, Mt. Diablo B. & M.

|             |      | un .      | 在でしたのののは、ないのでは、ないのでは、ないののでは、ないののでは、ないできない。                                   | 5471      |
|-------------|------|-----------|--|-----------|
|             | -    | 1. Max    |  | 3 48      |
|             | Nov. | x. Min    | 226 \$ \$ \$ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                   | η 50<br>1 |
|             |      | Ma        |  | 60.9 52   |
|             | Oct  | x. Min.   | 1.0.20.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0                                     |           |
|             |      | Min. Max  |  | 72.0 64   |
|             | Sopt | Max. Mi   |  | 7 4.47    |
| ٩           |      | n.        | 12   | 76.3 7    |
| , 19 46     | Aug  | Max. Mi   | 4  | 0.67      |
| nhoit       | ^    | Min.      | で た  | 75.9      |
| Fahronhoi   | July |           | %<br>%<br>%<br>%<br>   | 4°08      |
| dogroos     | June | Min.      | 800000000000000000000000000000000000000                                      | 65.5      |
| in do       | J    | Max.      | \$ | 68.9      |
| 4           | av   | Min.      | 50222222222222222222222222222222222222                                       | 5 55.3    |
| ompora turo | M    | Mex       | \$ | 3 58.5    |
|             | Apr  | Min       | מומימימימימימימימימימימימימימימימימימימ                                      | 57-3 53.  |
| -           |      | Max       | 111111111111111111111111111111111111111                                      | 57.       |
|             | Mar. | Min.      |  |           |
| -           |      | Max.      |  |           |
|             | Fob  | x Min.    |  |           |
| -           |      | n Max     |  |           |
|             | 녆    | x Min     |  |           |
| -           | -    | Da to Max |  | ۸.        |
|             |      | 됨         | 4 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                      | Av        |

\* These data are made available through the Eureau of Marine Fisheries, California Division of Fish and Game.

Daily Maximum and Minimum Water Temperatures, American River at Sacramento \*
Thermograph located at H. St. Bridge, at east end of H. St., Sacramento, Sacramento County, Calif. Sec. 4, T. 8 N., R. 5E., Mt. Diablo B.&M.

|                 | Pro   | Max Min.    |       | 1  | t<br>t | 1   | 1    | 1   | 1     | 1   | 1  | 1                | 1 1 | 77 27 | 下 元 | 17 16 | 94 14 | 24 84 | 148 47 | 1          | 1 1     | 1 1 | 1     | 1 1        | 1   | 1     | 1 1    | 1     | -   | 47.346.2    |
|-----------------|-------|-------------|-------|----|--------|-----|------|-----|-------|-----|----|------------------|-----|-------|-----|-------|-------|-------|--------|------------|---------|-----|-------|------------|-----|-------|--------|-------|-----|-------------|
|                 | Now   | Min.        | 1     | 1  | 1      | 1   | 1    | 1   | 1     | a l | 1  | 1                | 1 1 | 1     | 1   | 1     | 1     | 1     | 1      | 1          | 1 1     | 1 1 | 1     | 1 1        | 1   | 1     | 1 1    | 1     |     |             |
|                 | Oct   | in.         | 75 64 |    | 75 62  |     | =+   | N   | 68 62 | 7   |    | - 64<br>64<br>64 | 1 1 | 1     | 1   | 1     | 1     |       |        | 3 S        |         |     | 61 58 | 1 1        | 1   | 1     | 1 1    | t t   | 1   | 57.9 61.9   |
|                 | Sont. | n           | 1     | 1  | 1      | 1   | 1    | 1   | 1     | 1   | 1  | 1                | 1 1 | 1     | 1   | 1     | 1     | 1     | ,      | 86 63      |         |     | 81 66 |            |     |       |        | 72 65 |     | 50.0 65.2   |
|                 | Aug.  | Max. Min.   | 1     | 1  | 1      | 1   | 1    | 1   | 1     | 1   | 1  | 1                | 1 1 | 1     | 1   | 1     | 1     | 1     | 1      | 1          | 1 1     | 1   | 1     | 1 1        | 1   | 1     | 1 1    | 1     | 1   |             |
| Fahronhoit,     | July  | in.         | 1     | 1  | 1      | 1   | 1    | 1   | 1     | 1   | 1  | 1                | 1 1 | ı     | 1   | 1     | 1     | 1     | 1      | 1 (        |         | 1   | 1     | 1 1        | 1   | 1     | 1 1    | 1     | -   |             |
| n degrees       | June  | Max. Min.   |       |    |        |     |      |     |       |     |    | 750              |     |       |     | 77 73 |       |       | 79 75  | 79 76      | 1 1     | ı   | 1     | 1 1        | 1   | 1     | ! !    | 1     | - 4 | 70.3 67.1   |
| Temporature, in | May   | ı n         | 62 60 |    |        |     |      |     |       |     |    |                  |     |       |     |       |       |       |        |            |         |     | 969   |            |     | 99 69 |        | 88    | 100 | 64.8 62.3   |
| Tempo           | Apr.  | Max. Min. N | 2     |    |        |     |      |     |       |     |    |                  |     |       |     |       |       |       |        |            |         |     | 58 56 |            |     |       |        |       |     | 6.9 55.0 6  |
|                 | Mar.  | in.         | 617   | 64 | £.     | 84. | 1,47 | 1,7 | 148   | 148 | 84 | ₩.C              | 12  | 517   |     |       | T.    | 52    | 121    | מ ני       | \.<br>군 | 法   | 53    | 52         | 525 | 太出    | <br>8년 | 52 52 | 77  | 2.4 50.7 5  |
|                 | F.b.  | in          | 1     | 1  | 1      | 1   | 1    | 1   |       | 1   | 1  | 210              | 17  | 17    | 94. | 147   | 24    | 148   | 2 1 2  | # #<br>% # | 5 0     | 5.5 | 51 48 | 26         | 7,  | 000   | 7,     |       | 1   | 49.7 48.2 5 |
|                 | Jan.  | Min.        |       |    |        |     |      |     |       |     |    | 23               | 62  | 300   | (구  | 140   | 04    | 38    | 37     | ) K        | 2 %     | 39  | 41 39 | <b>‡</b> , | 1   | 1     | 1 1    | 1     | '   | 41.9 40.5 4 |
|                 |       | Date        |       |    |        | 41  |      |     |       |     |    |                  |     |       |     |       |       |       |        |            |         |     |       |            | 56  | 1.2   | 53     | 30    | 1   | Av.         |

These date are made available through the Bureau of Marine Fisherles, California Division of

Fist and Game.

Thermograph located at H. St. Bridge, at east end of H. St., Sacramento, Sacramento County, Calif. Sec. 4, T. 8N., R. F. Mt. Diablo B.& M. Daily Maximim and Minimim Water Temperatures, American River at Sacramento \* TABLE 62

|              | Poor  |           |    |     |        |       |       |      |      |       |     |     |              |       |     |        |      |          |      |            |    |   |       |    |    |       |    |            |    |            |               |
|--------------|-------|-----------|----|-----|--------|-------|-------|------|------|-------|-----|-----|--------------|-------|-----|--------|------|----------|------|------------|----|---|-------|----|----|-------|----|------------|----|------------|---------------|
|              | NOW   |           |    |     |        |       |       |      |      |       |     |     |              |       |     |        |      |          |      |            |    |   |       |    |    |       | _  |            |    |            |               |
|              | 00+   |           |    |     |        |       |       |      |      |       |     |     |              |       |     |        |      |          |      |            |    |   |       |    |    |       |    |            |    |            | on of         |
|              | Sopt. |           |    |     |        |       |       |      |      |       |     |     |              |       |     |        |      |          |      |            |    |   |       |    |    |       |    |            |    |            | da Division   |
| 19 48        | Aug   | Max. Min. | 1  |     |        |       | 80 77 |      | 1    | 1     | 1   | 1   | 1            | ı     | 1   | 1 1    | 1    | i        | 1    | 1 1        | 1  | 1   | 1 1   | 1  | 1  | 1 1   | 1  | 1          | -  | 80.3 78.3  | California    |
| Fahronhoit,  | July  | x. Min.   | -  |     |        |       |       |      |      |       |     |     |              |       |     |        |      |          |      | 82 78      |    |   | 75 75 |    |    | 79 79 |    | 782        | 78 | 78.7 75.0  | Fisheries.    |
| dogroos F    | unc   | n.        | הא | 77  | 57     | 56    | 57    | 56   | 57   | 53    | 80  | 200 | 200          | 300   | 36  | 3.63   | 62   | 5        | \$ 5 | 945<br>945 | 79 | <del>-</del> | 200   | 88 | 69 | 69    |    | 72         | 80 | .6 62.h    | of Marine     |
| turo, in     |       | Min.      | 50 |     | -<br>元 | 55    | 26    | 55   | 55   | LZ    | 25  | 25  | 7.<br>7.     | 25    | 2,4 | ·<br>法 | 杰    | 杰        | スに   | 25         | 20 | 53  | 75    | 57 | 57 | 57.2  | -  | 学          | 54 | 8 54.1 64  | Bureau        |
| Tomporaturo, | Apr.  | Min. Max  | H  |     | -      |       | -     | -    |      | _     | 53  | _   |              | _     | _   | _      | _    | -        |      |            |    | _   | 74    |    | -  | 52 60 | _  | (元)<br>(元) | 56 | 8 51.8 56. | rough the     |
|              |       | n. Man    | -  |     |        | _     |       | -    |      |       | -   | _   |              | -     |     | -      |      |          |      |            |    |   |       | _  |    | 72 24 | -  |            | 54 | 50.6 53.   | available thr |
|              |       | 3         | -  |     |        | 46 52 | _     | - 52 | - 52 | - 53  | 225 | * E | - 1<br>2. F. | 77,77 | 77  | - 53   | - 55 | <u>-</u> | 72   |            | -  | _   |       |    | -  | 22    |    | 26         | +  | 47.5 52.9  | e made av     |
|              | Fob   | n, Max.   |    | 147 | 148    | 148   | 748   | 1    | 1    | 1     | ı   | 2   | ı ı          | 1     | 1   | 1      | 1    | ı        | 1 1  |            |    |   | 7.5   | 51 | 55 | 20    |    |            |    | 9.64 0     | data ar       |
|              | 되     | Max. Mt   | 1  |     |        |       | Lt 6t |      |      | 84 64 | 1   |     |              | 1     | 1   | 1      | 1    | 1        | 1 1  | ı          | 1  | 1   |       |    |    | され    |    |            | 1  | 47.7 46    | * Треве       |
|              |       | Date      | ~4 | 0   | 10     | 4     | က     | တ ၊  | - 0  | 00    | ٥ ر |     | 2            | 13    | 14  | 15     | 16   | 17       | 19   | 20         | 21 | 220   | 242   | 25 | 26 | 28    | 53 | 30         | 31 | Av.        | 6             |

Marine Figheries, California Division of Fish and Game.

Thermograph located one-half mile north of Lodi, San Joaquim County, California

Sec. 36, T. 4N., R. 6E., Mt. Diablo B.& M.

|             | Doc. | Min    | ET E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                     | 464   |
|-------------|------|--------|--|-------|
|             | ă    | Max    | ##200000000000000000000000000000000000                                       | 217   |
|             | K    | Min.   |  | 52.1  |
|             | Nov  | Max.   |  | 54.3  |
|             |      | Min.   | им+юг  | 62.0  |
|             | 00   | ×      |  | 3.96  |
|             |      | n. Ma  |  | .5    |
|             | Scot | x. Mi  |  | 7 63  |
|             |      | Max    |  | 4 66  |
| 74 6        | up.  | x, Min | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                       | 0 63. |
| 14, 19      |      | Max    |  | 67    |
| Fahronhoi   | >    | Min.   | -0×000×000000 0 0 1 0 1 0 1 0 1 0 1 0 1 0                                    | 63.2  |
| Fahr        | Jul  | Max.   | 10001000000000000000000000000000000000                                       | 67.7  |
| 2002        | 0    | n.     |  | 64.0  |
| dogroos     | June | IN     | M O 8 8 4 O M D O O O O O O O O O O O O O O O O O                            | 8     |
| , in        |      | n. Ma  |  | 9.0.6 |
| aturc       | May  |        |  | .1 59 |
| Tamporaturo |      |        |  | 8 63  |
| To          | tor. | . Min  | プリスプラップをサップラップラップラックのファック マックラック マック・マック マック マック マック マック マック マック マック マック マック | 4 55. |
|             |      | Mex    | 00200022222222000000000000000000000000                                       | 59.   |
|             |      | Min.   |  | 55.3  |
|             | Ma   | Max.   | MANA MANA MANA MONNA HARO O O O O O O O O O O O O O O O O O O                | 58.0  |
|             |      | Min.   | レートトトレート・トゥのの00歳歳のののののもはは100   | 48.7  |
|             | Fob. | Max.   |  | 0.5   |
|             |      | n      |  | .75   |
|             | Jan. | x. M1  |  | 2.    |
|             |      | 2      |  | 443   |
|             |      | Date   |  | Av.   |

\* These data are made available through the Bureau of Marine Fisheries, California Division of Fish and Game.

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Thermograph located one-half mile north of Lodi, San Joaquim County, California Sec. 36, T. 4N., R. 6E., Mt. Diablo B.& M. TABLE 64

Temporature, in degrees Enhronheit 1918

|                  | Poor  | -         |  |             |
|------------------|-------|-----------|--|-------------|
|                  | Nov   |           |  |             |
|                  | Oct   |           |  |             |
|                  | Sopt. |           |  |             |
| t, 1948          | Aug   |           |  |             |
| Fahronhoit, 1948 | July  |           | Q.   |             |
| in degrees       | Juno  |           |  |             |
| Tomporaturo,     | Mav   | Max. Min. |  | 22.50 26.60 |
| Tomi             | 9     | Max. Min. | 74422222222222222222222222222222222222       | 24.2 24.4   |
|                  | 7     | . Min.    | **************************************       | 24.5        |
|                  | Fcb.  | 7         | マママケン マママ ママ マ | .7 40.2     |
|                  | Jane  | Min       | 20020000000000000000000000000000000000       | il.         |
|                  |       | 3         |  |             |

\* These data are made available through the Bureau of Marine Fisheries, California Division of Fish and Game.

Daily Maximum and Minimum Water Temperatures, San Joaquin River at Mossdale
Thermograph located on Western Pacific Railroad bridge, one-half mile south of Mossdale Bridge, San Joaquin County, California
Sec. 10, T. 2 S., R. 6 E., Mt. Diablo B. & M.

|          | Jan | Fobe | Mar. | Tom. | amporaturo,<br>May | in dog | Juno | July   | fahronhoit,<br>July | 19 48<br>Aug. |         | Sopt. |        | Oat      | 2       | Nov.   |      | Dog.    |
|----------|-----|------|------|------|--------------------|--------|------|--------|---------------------|---------------|---------|-------|--------|----------|---------|--------|------|---------|
| Pate     |     |      |      |      | Max. Min           | Max    | Min. | Max.   | Min.                | Ax.           | ii n ii | A X B | in.    | ax. Ki   | in. Max | K. Min |      | lax Min |
| rd ·     |     |      |      |      | 1                  | 62     | 56   | 74     | 68                  | 78            | 73      | 44    | -      |          | -       |        |      | 9 45    |
| N2       |     |      |      |      | 1                  | 63     | 59   | 73     | 69                  | 78            | 73      | 92    | 73     | ω        |         |        |      | 6       |
| #S       |     |      |      |      | 1                  | 66     | 62   | 71     | 67                  | 77            | 73      | 92    | 73     | မှ       | _       |        |      | 9 47    |
| -        |     |      |      |      | 1                  | 99     | 62   | 70     | 67                  | 76            | 77      | 75    | 72     | ထ        |         |        | _    | 8 45    |
| <u>ب</u> |     |      |      |      | 1                  | 67     | 61   | 7.1    | 67                  | 77            | 70      | 75    | 7.1    | ~        |         |        |      | 7 4     |
| ဖ        |     |      |      |      | 1                  | 29     | 62   | 7.1    | 67                  | 78            | 72      | 92    | 72     | 9 99     |         |        |      | 7       |
| 7        |     |      |      |      | 1                  | 68     | 62   | 72     | 67                  | 92            | 7.1     | 92    | 73     |          |         |        |      | 48 45   |
| <b>o</b> |     |      |      |      | 1                  | 67     | 63   | 72     | 87                  | 16            | 70      | 77    | 74     | 7        | _       |        |      | 49 47   |
| on !     |     |      |      |      | 1                  | 67     | 63   | 73     | 68                  | 75            | 69      | 78    | 74     | 69 64    | 4 52    | 2 47   |      | 50 47   |
| 10       |     |      |      |      | 1                  | 29     | 63   | 75     | 67                  | 75            | 68      | 77    | 73     | 8        |         |        |      | 51 48   |
|          |     | 7    |      |      | 1                  | 19     | 62   | 70     | 99                  | 94            | 67      | 78    | 74     |          |         |        |      | 1 48    |
| 2        |     |      |      |      | 1                  | 99     | 61   | 72     | . 99                | 77            | 68      | 78    | 74     |          | _       |        |      | 51 48   |
| 13       |     |      |      |      | 1                  | 65     | 09   | 73     | 67                  | 77            | 20      | 77    | 74     |          | -       |        |      | 1 49    |
| 14       |     |      |      |      | 1                  | 65     | 90   | 75     | 69                  | 77            | 7.1     | 94    | 73     |          |         |        | -    | 0 49    |
| 15       |     |      |      |      | 1                  | 65     | 09   | 26     | 7.1                 | 75            | 71      | 73    | 70     |          | _       |        | -    | 48 46   |
| 16       |     |      |      |      | 1                  | 65     | 61   | 81     | 72                  | 74            | 69      | 7.1   | 67     |          | _       |        | _    | 46 45   |
| 17       |     |      |      |      | 1                  | 29     | 62   | 46     | 74                  | 74            | 68      | 68    | 67     |          | -       | 1      | 2    | 51 50   |
| 18       |     |      |      |      | 1                  | 65     | 63   | 77     | 72                  | 75            | 69      | 69    | 99     |          | 2       |        | 4    | 47 43   |
| 18       |     |      |      |      | '                  | 68     | ₹9   | 78     | 72                  | 74            | 69      | 70    | 99     |          | _       | ı      | 4    | 47 45   |
| 50       |     |      |      |      |                    | 69     | 99   | 78     | 73                  | 75            | 70      | 7.1   | 67     |          | -1      | 1      | 4    |         |
| 23       |     |      |      |      | 58 52              | 7.1    | 68   | 64     | 73                  | 77            | 73      | 69    | 99     | 63 5     |         | ı      | Ą    | 4       |
| 200      |     |      |      |      |                    | 72     | 68   | 62     | 73                  | 75            | 7.1     | 69    | 65     |          |         | 1      | *    | 5 42    |
| 23       |     |      |      |      |                    | 72     | 68   | 77     | 72                  | 73            | 69      | 67    | 64     |          |         | 4      | 9 4  | 4 41    |
| 42       |     |      |      |      |                    | 73     | 68   | 92     | 20                  | 75            | 69      | 65    | 61     |          | 1 53    | 41     | 9 4  | 2 38    |
| 200      |     |      |      |      | 65 60              | 73     | 69   | 77     | 69                  | 92            | 70      | 64    | 61     |          | -       | 41     | 9    | 1 39    |
| 92       |     |      |      |      |                    | 73     | 67   | 77     | 70                  | 78            |         | 64    | 59     | 9        | -       | 4      | 8 4  | 2 41    |
| 12       |     |      |      |      |                    | 73     | 67   | 7/8    | 7.1                 | 78            | 72      | 99    | 09     | S        | 8 49    | 4      | 4    | 5 42    |
| 82       |     |      |      |      |                    | 72     | 29   | 78     | 73                  | 78            | 73      | 99    | 62     | 9 5      | 2       | 41     | 4    |         |
| 50 (0    |     |      |      |      | 61 56              | 74     | 67   | 78     | 7.1                 | 17            | 74      | 67    | 63     | 57 5     | 5 49    | ব্যা   | 5 4  | 5 44    |
| 30       |     |      |      |      |                    | 73     | 69   | 78     | 72                  | 92            | 73      | 67    | 64     | 6 5      | 4       | বা     | 41   | 5 45    |
| 31       |     |      |      |      |                    |        |      | 78     | 73                  | 76            | 7.1     |       |        | 7 5      | 2       |        | 4    | 5 44    |
| Av.      |     |      |      |      | 61,156,6           | 68.5   | 63.6 | 75.3 6 | 69.7 7              | 6.1           | 70.6 7  | 1.9   | 68.2 6 | 64.8 60. | 5.53    | 7 47   | 47.0 | 0 44.8  |

Daily Maximum and Minimum Water Temperatures, San Joaquin River west of Stockton
Thermograph located on Highway 4 Bridge, four miles west of Stockton, San Joaquin County, California
Sec. 16, T. 1 N., R. 6 E., Mt. Diablo B. & M.

w.

Daily Maximum and Winimum Water Temperatures, San Joaquin River west of Stockton
Thermograph located on Highway 4 Bridge, four miles west of Stockton, San Joaquin County, California
Sec. 16, T. 1 N., R. 6 E., Mt. Diablo B. & M.

F

|             | 1 8           |   | 44                     | 44                   | 46                | 44  | 46                      | 45<br>C A               | 46                      | 46                   | 47                   | 47  | 48                                      | 120                                      | 47                   | 4                       | 97                   | 44                                     | 44                      | 4                      | 42                      | 4                       | 39                  | 41                                      | 42   | 41                      | 39                        | 41                    | 22  | 4 4                                       |
|-------------|---------------|---|------------------------|----------------------|-------------------|---|-------------------------|-------------------------|-------------------------|----------------------|----------------------|---|---|--|----------------------|-------------------------|----------------------|--|-------------------------|------------------------|-------------------------|-------------------------|---------------------|---|--|-------------------------|---------------------------|-----------------------|---|---|
|             | Dog           | Max                                     | 49                     | 48                   | 48                | 48  | φ c                     | 40                      | 4 4 8                   | 48                   | 49                   | 50  | 50                                      | 25                                       | 4, 4<br>0            | 47                      | 8                    | A7                                     | 47                      | 946                    | - 4                     | 14 c                    | 44                  | 43                                      | 44   | 44                      | 42                        |                       |   |   |
|             | -             | Min                                     | 51                     | 56                   | 57                | 55  | 56                      | 7 7                     | 525                     | 50                   | 49                   | 49  | 49                                      | 200                                      | 50 65                | 52                      | 53                   |  | 55                      | 22                     | 49                      | 49                      |                     | 8                                       | 8  | 81                      | 45                        | च                     |   | 50.5 46.9                                 |
|             | Nov.          | 5                                       |                        |                      |                   |   |                         |                         |                         |                      |                      |   |   |  |                      |                         |                      |  |                         |                        |                         |                         |                     | 4.                                      |  |                         | 4                         | 4                     |   |   |
|             | _             | 27.0                                    | <u> </u>               |                      |                   |   |                         |                         | _                       | -                    | _                    |   | _                                       |  | 57 5                 |                         |                      | _                                      |                         |                        |                         |                         |                     |   | 2  | 51                      | 50                        | 20                    | 49  | 54.4                                      |
|             | ئد            | Lin                                     | 66                     | 66                   | 67                | 99  | 65                      | 5 4                     | 65                      | 65                   | 65                   | 65  | 65                                      | 63                                       | 63                   | 63                      | 63                   | 64                                     | 63                      | 29 9                   | 9 6                     | 62                      | 62                  | 62                                      | 62   | 9                       | 9                         | 59                    | 58  | 9   |
|             | Oct           | Max                                     | 69                     | 69                   | 20                | 69  | 200                     | 88                      | 202                     | 69                   | 69                   | 99  | 99                                      | 67                                       | 99                   | 67                      | 67                   | 67                                     | 99                      | 65                     | 0 0                     | 99                      | 99                  | 99                                      | 65   | 64                      | 63                        | 62                    | 19  | 66.3                                      |
|             | Ī             | Min                                     | 76                     | 74                   | 75                | 75  | 7,5                     | 7.5                     | 75                      | 75                   | 75                   | 75  | 92                                      | 76                                       | 7.4                  | 74                      | 72                   | 72                                     | 7                       | 17.                    | 68                      | 67                      | 99                  | 65                                      | 64   | 64                      | 63                        | 64                    |   | 71.4                                      |
|             | Sopt.         | ax.                                     |                        | 0                    | 80                | 0 9                                       | 3 00                    | 0 0                     | , o                     | · 0                  | 0                    | 0   | 0                                       | 0 0                                      | 78                   | D.                      | 5                    | 41                                     | s<br>S                  | 41 -                   | 4 ,                     | 0                       |                     |   |  |                         |                           |                       |   |   |
|             |               | M                                       | _                      |                      |                   |   | -                       |                         | _                       |                      |                      |   |   |  |                      | -                       | -                    | _                                      |                         |                        |                         |                         |                     |   |  | -                       |                           |                       |   | 2 75.4                                    |
| 48          | Aue           | Min                                     | 76                     | 7.                   | 76                | 2   | 2/2/                    | 76                      | 75                      | 7.4                  | 7.3                  | 7.53  | 74                                      | 7 2 2                                    | 75                   | 74                      | 74                   | 74                                     | , t                     | 7.4                    | - 6-                    | 72                      | 71                  | 72                                      | 73   | 74                      | 74                        | 75                    | 75  | 74.                                       |
| , 19        | A             | Max                                     | 81                     | 80                   | 80                | 80  | 20 6                    | 79                      | 79                      | 78                   | 78                   | 79  | 79                                      | 70                                       | 79                   | 78                      | 17                   | 77                                     | 1 0                     | 200                    | 76                      | 76                      | 17                  | 78                                      | 78   | 78                      | 80                        | 79                    | 79  | 78.6                                      |
| Fahronhoit  |               | Min                                     | 70                     | 70                   | 20                | 89  | υ α<br>α                | 69                      | 69                      | 69                   | 72                   | 九   | 73                                      | 7.2                                      | 76                   | 76                      | 9/                   | 75                                     | 76                      | 76                     | 76                      | 75                      | 94                  | 76                                      | 76   | 77                      | 77                        | 92                    | 76  | 3.5                                       |
| hron        | July          |   | 73                     | 75                   | 72                | 7 6                                       | 2 K                     | 23                      | 74                      | 75                   | 17                   | 7.7   | 7.7                                     | ور<br>در                                 | 8 2 2                | 31                      | 25                   | 35                                     | 2 2                     | 200                    | , , ,                   | 6,                      | 81                  | 31                                      | 7  | 32                      | 81                        | 80                    | 0.5   | .4 7                                      |
|             |               | N Co                                    | -                      |                      |                   |   |                         |                         |                         |                      |                      | -   | -                                       |  |                      | -                       | _                    | -                                      | -                       |                        | , ,                     | _                       |                     |   | -  | -                       |                           | ,                     | -   | 65.0 78.4                                 |
| dogroos     | June          | Mi                                      |                        |                      |                   | 19  |                         |                         |                         |                      |                      |   | ý č                                     | ù à                                      | 62                   | 9                       | 9                    | 9                                      | 9 0                     | 9 0                    | 9                       | 70                      | 70                  | 20                                      | 69   | 70                      | 9                         | 69                    | 7   |   |
| in de       |               | Max                                     | 99                     | 99                   | 64                | 6.5                                       | 9 6                     | 67                      | 67                      | 67                   | 99                   | 68  | 67                                      | 99                                       | 99                   | 67                      | 67                   | 67                                     | 2 %                     | 73                     | 74                      | 75                      | 75                  | 74                                      | 74   | 74                      | 74                        | 75                    | 73  | 69.1                                      |
|             |               |   |                        | 1                    | 1                 | 1   | 65                      | 64                      | 63                      | 62                   | 09                   | 60  | 29                                      | 6.3                                      | 63                   | 65                      | 64                   | 200                                    | 5 t                     | 27.0                   | 57                      | 61                      | 63                  | 64                                      | 65   | 69                      | 62                        | 19                    | 61  | 61.9                                      |
|             | r             | 2                                       |                        |                      |                   |   |                         |                         |                         |                      |                      |   |   |  |                      |                         |                      |  |                         |                        |                         |                         |                     |   |  |                         |                           |                       |   | 0.  |
| ra tu       | May           | ax. N                                   | 1                      | 1                    | 1                 | 100                                       | 69                      | 99                      | 65                      | 64                   | 65                   | 99  | 19                                      | 67                                       | 69                   | 88                      | 65                   | 29                                     | 0<br>0<br>0             | 200                    | 29                      | 29                      | 89                  | 2                                       | 35   | 36                      | ວ                         | 34                    | 22  | 1 10                                      |
| ampora tur  | May           | Ma                                      |                        | ,                    | 1                 |   | -                       | 99                      | _                       | -                    |                      | -   | 200                                     |  | -                    | -                       |                      |  | 29                      |                        | -                       | -                       |                     | -                                       | _  | 9                       | 9                         | 64                    | 62  | 1 65                                      |
| Tomporaturo | Inr. May      | n. Ma                                   | 6                      | 29                   | 1 28 0            |   | -                       |                         | _                       | -                    |                      | -   |   |  | 61 69                | -                       |                      |  | -                       |                        | -                       | -                       |                     |   | _  | -                       | 9                         | - 64                  | - 62  | 60.1 65                                   |
| Tomporatu   | Apr. May      | Ma                                      | 59                     |                      |                   |   | 54                      | 56                      | 58                      | 28                   | 28                   | 28  | ı                                       | 1 1                                      | -                    | 62                      | 19                   | 19                                     | 200                     | 63                     | 64                      | 63                      | 61                  | 63                                      | 62   | 19                      | 9 09                      | 9                     |   | 0.1 65                                    |
| Tomporatu   | Apr           | in. Max. Min. Ma                        | 63 29                  | 62                   | 61                | 000                                       | 58 54                   | 60 56                   | 60 58                   | 60 58                | 61 58                | 85 29   | 1                                       | 1 1                                      | 66 61                | 63 62                   | 65 61                | 19 99                                  | 29 19                   | 66 63                  | 67 64                   | 65 63                   | 65 61               | 66 63                                   | 66 62  | 64 61                   | 62 60 6                   | 9                     | 1   | 3.2 63.2 60.1 65                          |
| Tomporatu   | ar. Apr       | . Min. Max. Min. Ma                     | 52 63 59               | 53 62                | 52 61             | 52 50 58                                  | 52 58 54                | 53 60 56                | 53 60 58                | 53 60 58             | 52 61 58             | 95 29 26  | 000                                     | 1 1                                      | 53 66 61             | 52 63 62                | 52 65 61             | 25 65 6I                               | 50 67 62                | 53 66 63               | 54 67 64                | 55 65 63                | 54 65 61            | 53 66 63                                | 29 99 09   | 53 64 61                | 56 62 60 6                | 57 6                  | 53  | 7 53.2 63.2 60.1 65                       |
|             | Mar. Apr      | 1. Max. Min. Max. Min. Ma               | 55 52 63 59            | 55 53 62             | 55 52 61          | 25 50 50 50 50 50 50 50 50 50 50 50 50 50 | 56 52 58 54             | 56 53 60 56             | 55 53 60 58             | 55 53 60 58          | 55 52 61 58          | 56 52 58  | 1 20 00 00                              | 50 00 00 00 00 00 00 00 00 00 00 00 00 0 | 56 53 66 61          | 54 52 63 62             | 55 52 65 61          | 19 99 97 CE EE EE                      | 30 32 67 62             | 58 53 66 63            | 58 54 67 64             | 57 55 65 63             | 56 54 65 61         | 57 53 66 63                             | 57 50 66 62  | 53 64 61                | 59 56 62 60 6             | 61 57 - 6             | 1 1 8   | .9 56.7 53.2 63.2 60.1 65                 |
|             | Mar. Apr      | . Min. Max. Min. Max. Min. Ma           | 44 55 52 63 59         | 44 55 53 62          | 44 55 52 61       | 45 55 50 50 50 50 50 50 50 50 50 50 50 50 | 44 56 52 58 54          | 43 56 53 60 56          | 43 55 53 60 58          | 47 55 53 60 58       | 46 55 52 61 58       | 43 56 52 62 58  | 1 00 00 24 A                            | 56 55 55 55 55 55 55 55 55 55 55 55 55 5 | 47 56 53 66 81       | 48 54 52 63 62          | 52 65 61             | 50 55 55 65 6I                         | 49 56 52 67 62          | 58 53 66 65            | 53 58 54 67 64          | 51 57 55 65 63          | 49 66 54 65 61      | 53 66 63                                | 51 57 50 66 62                                     | 51 51 53 64 61          | 51 59 56 62 60 6          | 51 61 57 6            | 53  | 8 46.9 56.7 53.2 63.2 60.1 65             |
|             | Mar. Apr      | . Min. Max. Min. Max. Min. Ma           | 44 55 52 63 59         | 44 55 53 62          | 44 55 52 61       | 45 55 50 50 50 50 50 50 50 50 50 50 50 50 | 44 56 52 58 54          | 43 56 53 60 56          | 43 55 53 60 58          | 47 55 53 60 58       | 46 55 52 61 58       | 43 56 52 62 58  | 1 00 00 24 A                            | 56 55 55 55 55 55 55 55 55 55 55 55 55 5 | 56 53 66 61          | 48 54 52 63 62          | 52 65 61             | 50 55 55 65 6I                         | 49 56 52 67 62          | 58 53 66 65            | 53 58 54 67 64          | 51 57 55 65 63          | 49 66 54 65 61      | 53 66 63                                | 51 57 50 66 62                                     | 51 51 53 64 61          | 51 59 56 62 60 6          | 51 61 57 6            | 53  | 50.8 46.9 56.7 53.2 63.2 60.1 65          |
|             | Fob. Mar. Apr | in. Max. Min. Max. Min. Max. Min. Ma    | 48 44 55 52 63 59      | 48 44 55 53 62       | 40 44 55 52 61    | 48 45 55 59 59 58                         | 47 44 56 52 58 54       | 48 43 56 53 60 56       | 48 43 55 53 60 58       | 49 47 55 53 60 58    | 48 46 55 52 61 58    | 45 45 56 52 62 58   | 48 47 55 54                             | 50 43 56 54                              | 47 56 53 66 81       | 51 48 54 52 63 62       | 52 48 55 52 65 61    | 52 50 <b>55 55 65 61</b>               | 53 49 56 52 67 62       | 53 49 58 53 66 63      | 3 55 53 58 54 67 64     | 53 51 57 55 65 63       | 4 54 49 56 54 65 61 | 2 | 29 29 21 27 20 22                                  | 5 55 51 61 53 64 61     | 5 54 51 59 56 62 60 6     | 5 55 51 61 57 - 6     | 53  | .8 46.9 56.7 53.2 63.2 60.1 65            |
|             | Fob. Mar. Apr | . Min. Max. Min. Max. Min. Max. Min. Ma | 42 48 44 55 52 63 59   | 42 48 44 55 53 62    | 43 48 44 55 52 61 | 46 48 45 55 50 50                         | 48 47 44 56 52 58 54    | 49 48 43 56 53 60 56    | 50 48 43 55 53 60 58    | 49 49 47 55 53 60 58 | 48 46 55 52 61 58    | 49 48 43 56 52 62 58  | 47 48 47 55 54                          | 43 50 43 56 54                           | 42 50 47 56 53 66 61 | 42 51 48 54 52 63 62    | 41 52 48 55 52 65 61 | 41 52 50 30 30 66 61<br>41 59 50 55 55 | 41 53 49 56 52 67 62    | 53 49 58 53 66 63      | 43 55 53 58 54 67 64    | 44 53 51 57 55 65 63    | 44 54 66 54 65 61   | 45 55 66 63                             | 29 99 07 20 27 27 27 27 27 27 27 27 27 27 27 27 27 | 45 55 51 51 53 64 61    | 45 54 51 59 56 62 60 6    | 45 55 51 61 57 - 6    | 1 57 1 57 1 6 6 6 7 5 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 4.3 50.8 46.9 56.7 53.2 63.2 60.1 65      |
|             | Fob. Mar. Apr | . Min. Max. Min. Max. Min. Max. Min. Ma | 4 42 48 44 55 52 63 59 | 45 42 48 44 55 53 62 | 45 46 44 55 52 61 | 48 46 48 45 55 59 50 58                   | 50 48 47 44 56 52 58 54 | 51 49 48 43 56 53 60 56 | 52 50 48 43 55 53 60 58 | 52 49 47 55 53 60 58 | 25 44 46 55 52 61 58 | 30 47 48 45 56 52 62 58 30 30 47 48 49 49 49 65 67 68 68 68 68 68 68 68 68 68 68 68 68 68 | 100 00 11 1 1 00 00 1 1 0 0 0 0 0 0 0 0 | 48 43 50 43 56 54                        | 42 50 47 56 53 66 61 | 47 42 51 48 54 52 63 62 | 41 52 48 55 52 65 61 | 47 47 49 50 55 55 55 55                | 47 41 53 49 56 59 67 67 | 47 - 53 49 58 53 66 63 | 47 43 55 53 58 54 67 64 | 48 44 53 51 57 55 65 63 | 40 44 54 65 61      | 40 40 57 53 66 63                       | 40 43 35 31 37 50 66 62                            | 40 40 50 51 51 53 64 61 | 40 40 55 51 59 56 62 60 6 | 43 43 55 51 61 57 - 6 | 48 42 61 57 6   | 8.0 44.3 50.8 46.9 56.7 53.2 63.2 60.1 65 |

California at Tracy Road Joaquin County, Temperatures, Middle River southwest of Stockton, San M ન્ધ Diable B. Mt. 国 io Road Minimum Water Road, seven miles T. 1 S., R. ۲, Daily Maximum and Thermograph located at Tracy Ros Sec.

50 40 50 50 4 97 63 ax. 49 97 49 49 48.1 554 551 551 551 551 554 554 20 0, 70 PC 60.5 65 23 68 Sopt 73.0 2.2 1948 4. 94 94 Fahronhott, 71.3 10 77 77 77 77 77 80 80 82 80 78 78 79 79 77 dogroos 0 63. 0.69 33 Tomporaturo, 57 64.0 55.3 \$\begin{align\*}
\text{Structure}
\text{S Apr 53 5 6 50 49 48 47 Mar 54.9 49 51 45.9 Fob. S 47 49 5222233 49 55 2 0 47 Jane 51 Dato 

Temperatures taken at Clifton Court Ferry, San Joaquin County, California Sec, 20, T. 1 S., R. \* E., Mt. Diablo B. & M.

|                         | Dog   | Wax Lin |      | -       |      | 1      | 1    | 1    | 1    | 1     | 1    | - 1 | 1    | 1    | 1    | . 1  | 1      | 47 46 | 48 47 | 49 48 | 49 . 48 | 49 48 | 50 49 | 50 49    | 51 50 |       |       |       | 51 49 | 1    | 1    | 1 1   | 49.5 48.6   |
|-------------------------|-------|---------|------|---------|------|--------|------|------|------|-------|------|-----|------|------|------|------|--------|-------|-------|-------|---------|-------|-------|----------|-------|-------|-------|-------|-------|------|------|-------|-------------|
|                         | Nov   |         |      |         |      |        |      |      |      |       |      |     |      |      |      |      |        |       |       |       | t-      |       |       |          |       |       |       |       |       |      |      |       |             |
|                         | Oct.  |         |      |         |      |        |      |      |      |       |      |     |      |      |      |      |        |       |       |       |         |       |       |          |       |       |       | ŗ     |       |      |      |       |             |
|                         | Sart. |         |      |         |      |        |      |      |      |       |      |     |      |      |      |      |        |       |       |       |         |       |       |          |       |       |       |       |       |      |      |       |             |
| 1947                    | Auc   | PM AM   | 72 - | 1       | 1    | 72 -   | 1    | 75 - | 1    | 74 -  | 1    | 1   | 74 - | 1    | 73 - |      | 74 - 1 | 1     | 1     | 75 -  | 1       | 74 -  | 1     | 72 -     | 1     | 1     | 73 -  | 1     | - 17  | 1    | - 2/ |       | 73.1 -      |
| Fahronhoit, 1947        | July  | PM AM   | 1    | - 70    | 71 - | 1      | 1    | 1    | - 17 | 1     | - 17 | 1   | 71 - | 1    | 1    | 70 - | 1      | 72 -  | 1     | 72 -  | 1       | 1     | 74 -  | 1        | 73 -  | 1     | 1     | · ·   | 1     |      |      | - 2/. | 9 70        |
|                         | June  | PW AM   | -    | - L     | 1    | 77 - 2 | 1    | - 71 | 1    | 1     | 1    | 1   | - 70 | 1    | - 72 | 1    | 1      | 74 -  |       | - 75  | 1       | - 74  |       | 1        | 75 -  | 1     | 74 -  | 1     | - 2/  |      | •    | - 21  | 72.7 72.4 7 |
| Tomporature, in degrees | May   | PM AM   | 1    | 71 - 17 | 1    | 1      | 74 - | 1    | - 70 | 1 . 1 | - 89 | 1   | 1    | 65 - | ' '  | - 99 | 1      | - 89  | ' '   |       | 72 -    | 1     | 74 -  | 1        | 73 -  | 1     | 1     | 1     | 1     | - 2) | '    | 1 1   | 70.3 70 7   |
| Tompo                   | Apr.  | PM . AM | 1    | - 19    | 1    | - 15   | 1    |      | - 00 | 1     | - 00 | '   | - 22 | ' '  |      | - 4  | 1      | - 89  | 1     | 2     | 1       | 1     | - 19  | 1        | - 1   | . !   | - 1.9 | 1     |       |      | 1 00 |       | 64.9 - 7    |
|                         | Mar   | 2       | 1    | 1       | 58 - | ı      | 58   | 1    | !    | 1     | 1    | 59  | 1    | 1    | -    | -    |        | 1     | 63 -  | •     | - 29    | 1     | 1     |          | ,     | - 29  | 1     | 1     | 1 23  | 1 .  |      | 63.   | •           |
|                         | Foba  |         | 1    | 1       | 49 - | 1      | 50 - | 1    | 50 - | 1     | 1    | 200 | 1    | 52 - | 53 - | 1    | 1      | 1 .1  | 55 -  | 1     | .22     |       | 1     | 1        | 1     | 1 200 | 1 01  | 1 000 |       |      |      |       | 53.0 - (    |
|                         | Jane  | Pri AM  | 1    | 1       | 1    | 1      | 1    | 1    | 1    | 1     | 1    | 1   | 1    | 1    | 1.   | 1    | 1      | 1     | ì     | 1     | 1       | 1     | 1     | 4.5<br>- |       | I Off | 1 :   | 1     |       | 50   |      | 49 -  | 47.8 -      |
|                         | _     | Pate    |      | N       | 80   | 41     | က    | 80   | _    | 00    | o i  | 0   | 7    | 23   | 13   | 14   | 15     | 16    | 17    | 80 (  | 5 6     | 02 6  | 12    | 200      | _     | _     |       |       | _     |      |      | 31    | Av.         |

Jan. - Aug. -- Column I for each month records afternoon temperatures between 1:00 and 4:00 F.M. Column II for each month records morning temperatures between 9:30 and 11:30 A.M. Thermograph, maximum and minimum. 1 December

TABLE 70

Old River at Clifton Court San Joaquin County, de M. E., Mt. Diablo B. Tempera tures, Daily Maximum and Minimum Water Temperature Thermograph located at Clifton Court Ferry, 4 R. Water T. 1 S., 20, Sec.

TABLE 71

Hand thermometer readings taken near north bank, one-half mile west of Antioch Bridge, Sacramento County, California Seo. 9, T. 2 N., R. 2 E., Mt. Diablo B. & M.

|                 | Dog   | A. W.  | 50 | 64 | 49 | 50  | 50 | 50 |    | 50  | 6     | 8     | 48 | 47 | L  | 1      | 48    | 48         | 848 | 48     | 48    |    | 48 | 48   | 48  | 48  |     | 1  |     | 1  | 48 | 47   | 46 | 48.4  |
|-----------------|-------|--------|----|----|----|-----|----|----|----|-----|-------|-------|----|----|----|--------|-------|------------|-----|--------|-------|----|----|------|-----|-----|-----|----|-----|----|----|------|----|-------|
| 000             | Mov   | A.W.   |    | 1  | 59 | 09  | 59 | 57 | 57 | -   | 1     | 55    | 55 | 54 | 53 | 54     |       |            | 53  | 52     | 52    | 19 | 51 | 00 1 | 1   | 50  | 50  | 50 | 50  | 50 | i  | 1    | 1  | 53.6  |
|                 | Oct.  | A.M.   | 68 | 99 | 67 | - 1 | 1  | 99 | 99 | 99  | 99    | 65    | 1  | 1  | 63 | 64     | 64    | 64         | 64  | ,      |       | 64 | 64 | 63   | 63  | 63  | 1   | 1  | 63  | 62 | 62 | 19   | 61 | 64.1  |
|                 | Sopt. | A.M.   | 70 | 70 | 77 | 70  | 70 | -0 | 1  | 69  | 70    | 70    | 70 | 70 | -  | 1      | .02   | 70         | 69  | 69     | 69    | 1  | 1  | 70   | 69  | 69  | 69  | 70 | 1   | 1  | 69 | 68   | -  | 9.69  |
| 1947            | Aug   | A.M.   | 72 |    |    | 7.1 | 73 | 73 | 72 | 73  | 1     | 1     | 72 | 72 | 72 | 70     | 70    | 88 - 11E . | 1   | ル<br>に | 69    | 70 | 68 | 68   | 1   | -   | 70  | 69 | 7.1 | 69 | 69 | 1    |    | 70.7  |
| Fahronhoit,     | July  | A.M.   | 69 | 70 | 69 | 1   | 1  | 1  | 70 | .70 | 70    | 69    | 70 |    |    | 70     | 70    | 72         | 70  | 71     | 1     | 1  | 72 | コ    | 70  | 71  | 7.1 | 1  | 72  | 72 | 71 | 72   | 72 | 70.8  |
| dogroos         |       |        | -  | 67 | 67 | 99  | 68 | 68 |    | 89  | 68    | 89    | 68 | 69 | 70 | 8 12 B | 1 100 | 69         | 70  | 72     | 72    | 1  | 1  | 1    | T T | 202 | 69  | 69 | 69  | 1  |    | . 40 |    | 68.89 |
| Tomporaturo, in | May   | A.M.   | 99 | 65 | -  |     | 67 | 67 | 68 | 1   |       | - 100 |    | 64 | 1  | 65     | 65    | 67         | - 1 | -      | 68    | 67 |    | 68   | 1   | ,   | ,   | 99 | 99  | 99 | 99 | 1    | -  | 66.3  |
| Tomp            | Apr.  | A.W.   | 59 | 59 | 58 | 58  | 1  |    | 58 | 58  | 58    | 59    | 29 | 1  | -  | 61     | 63    | 64         | 64  | 64     | 1 - 1 | 1  | 64 | 64   | 64  | 64  | 64  | -  | -   | 1  | 64 | 65   | -  | 61.5  |
|                 | Mar   | A.W.   | 1  | -  | 54 | 54  | 54 | 54 | 54 | 1   | 10 10 | 54    | 54 | 1  |    | 1      |       |            | 57  | 57     | 57.   | 57 | 57 | -    | 1   | 58  | 58  | 59 | 09  | 09 | 1  |      | 09 | 56.5  |
|                 | Fob.  | . A.M. | ·  | -  | 46 | 46  | 47 | 47 | 47 | 1   | 1     | 4.7   | 47 | 49 | 49 | 1      | -     |            | 50  | 50     | 20    | 19 | 51 | -    | 1   | 53  | 1   | 53 |     | 53 | 1  | 1    | -  | 49.2  |
|                 | Jan   | A.M.   | -  | 1  | 1  | -   | 1  | 45 | 45 | 45  | 44    | 4.4   | -  |    | 43 | 42     | 43    | 42         | -   |        | -     | 43 | 43 | 52   | 52  | 44  | 1   | 1  | 43  | £3 | 45 | 45   | 46 | 43.7  |
| 13              |       | Dato   | 1  | ~  | 20 | *   | 2  | 8  | 7  | 80  | 6     | 10    | 11 | 12 | 13 | 14     | 16    | 18         | 17  | 18     | 13    | 20 | 21 | 22   | 23  | 24  | 02  | 92 | 27  | 28 | 62 | 200  | 10 | Av.   |

Temperatures taken between 8:30 and 11:00 A.M.

TABLE 72

Daily Afternoon and Morning Water Temperatures, San Joaquin River at Antioch
Hand the mometer readings taken near north bank, one-half mile west of Antioch Bridge, Sacramento County, California
Sec. 9, T. 2 N., R. 2 E., Mt. Diablo B. & M.

| Apr           |
|---------------|
| A.M. P.M. A.M |
| 255           |
| - 56          |
| 1             |
| - 99          |
| 54 -          |
| 54            |
| 1             |
| 1             |
| 1             |
|               |
| 56 - 61       |
| - 22          |
| 55 - 60       |
| -             |
| 99            |
| 1             |
| 1             |
| 26            |
| 1 0           |
| 0 1           |
| 1 20          |
| 000           |
|               |
| 24            |
| 27.           |
| 200           |
| 2             |
|               |
| 000           |
| u             |
| 0.00          |

First column records afternoon temperatures between 12:30 and 4:00 P.M. Second column records morning temperatures between 9:30 and 11:30 A.M. MBL WHO! Library · Serials

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